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Access DB# 118195

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Shefali Patel Examiner #: 79747 Date: 3/29/04  
Art Unit: 2621 Phone Number 301-4182 Serial Number: 09/676,949  
Mail Box and Bldg/Room Location: CPI-4467 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Image Processing device, method, and storage medium  
Inventors (please provide full names): Aurakani Tomochika ; Hayashi, Junichi

Earliest Priority Filing Date: 11/18/1999

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for claim 1:

- judging means for whether the image is gray-scale image or color image
- Convert gray-scale image into color image
- embedding digital watermark in part of the color image data.

thanks,  
Zweil

3-3004

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Ramona Reynolds</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>306-0257</u>	AA Sequence (#) _____	Dialog <u>✓</u>
Searcher Location: <u>PK23123</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>3-31-04 10:40</u>	Bibliographic <u>✓</u>	Dr.Link _____
Date Completed: <u>3-31-04 3:20</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>0.9</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>41</u>	Other _____	Other (specify) <u>TPS DTC 1000</u>

Set	Items	Description
S1	25299	IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2	217	GREYSCALE OR GRAYSCALE OR (GREY OR GRAY)()SCALE?
S3	216	COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4	38	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D- ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) AND S1 AND S2
S5	99	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ- UST?) AND S2
S6	183	WATERMARK? OR WATER()MARK?
S7	74	(DIGIT? OR ELECTRONIC?) (3N) (MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8	9	STEGANOGRAPH?
S9	172	(EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA- L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN- G) AND (S5 OR S6 OR S7)
S10	0	AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI - J?)
S11	3	S5 AND S3 AND S9
S12	9	S5 AND S3
S13	6	S12 NOT S11
S14	0	S13 AND S6
S15	22	S1 AND S2 AND S3
S16	3	S15 AND S9
S17	0	S16 NOT (S12 OR S11)

11/3,K/1

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00126137 DOCUMENT TYPE: Review

PRODUCT NAMES: FreeHand 9 Macintosh (419257)

TITLE: Flash in the Pan: Macromedia Freehand 9

AUTHOR: Shalat, Andrew

SOURCE: Micro Publishing News, p22(1) Jun 2000

HOME PAGE: <http://www.micropubnews.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20001230

...the latest release of the illustration toolset, is rated excellent overall, especially for its consistent **integration** with Flash and features for concurrent Web publishing and traditional printing. New features **integrate** Freehand 9 successfully with existing and emerging graphics technologies. Users of FreeHand 7 and 8...  
...remain. New tools include the Page tool, which eases tasks required to resize each page, **change** orientation, duplicate, or remove pages. The Page tool's primary function is to easily generate...

...points as the user chooses. These features are particularly useful in accurately, quickly, and easily **changing** perspectives for use in a Flash movie. The new Envelope tool is easier to find...

...and pixel-based objects. When an area has been selected or traced, it can be **converted** to a path in an RGB, CMYK, or **gray - scale** color space. Users can produce multipage Portable Document Format (PDF) documents.

11/3,K/2

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00123515 DOCUMENT TYPE: Review

PRODUCT NAMES: KPT effects 6 Macintosh & Windows (436453)

TITLE: KPT 6 bundles 10 creative tools

AUTHOR: Howard, Courtney E

SOURCE: Electronic Publishing Magazine, v24 n3 p58(1) Mar 2000

ISSN: 1097-9190

HOME PAGE: <http://www.electronic-publishing.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20030221

...s Power Tools (KPT) 6 is MetaCreations' latest series of plug-in image filters that **add** to the effectiveness of Adobe Photoshop and any host

applications compatible with Photoshop. KPT's...

...same user-friendly interface is used across the plug-ins, but the floating control panel **changes** from filter to filter. Unfortunately, KPT 6 does not support CMYK, and all images have to be in **RGB** or **gray - scale** format in order to work with KPT's filters.

**11/3,K/3**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00115453                DOCUMENT TYPE:   Review

**PRODUCT NAMES:**   PhotoJazz 1.0 Windows & PowerMac   (747149)

**TITLE:**   BitJazz saves time and space with image compression

**AUTHOR:**   Howard, Courtney E

**SOURCE:**   Electronic Publishing Magazine,        v23 n1   p59(1) Jan 1999

**ISSN:** 1097-9190

**HOME PAGE:**   <http://www.electronic-publishing.com>

**RECORD TYPE:**   Review

**REVIEW TYPE:**   Product Analysis

**GRADE:**   Product Analysis, No Rating

**REVISION DATE:**   20021226

...1 with no loss in quality. This solves the problem of having large file sizes **attached** to high-resolution images, which hinders the workflow process because the larger files are difficult...

...channels. It does not support bitmap and indexed color images, and these have to be **converted** to **gray - scale** and **RGB** mode, respectively. PhotoJazz is compatible with Adobe's image editing and creation programs. The PhotoJazz...  
?

13/3,K/1

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00134648

DOCUMENT TYPE: Review

PRODUCT NAMES: Adobe Photoshop (213756)

TITLE: (R)Evolution II: Color: A New Zone System?

AUTHOR: Caponigro, John Paul

SOURCE: Photo>Electronic Imaging, v44 n10 p20(5) Oct 2001

ISSN: 0146-0153

HOME PAGE: <http://www.peimag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20020130

...according to a variety of methods. For example, artists can edit color quality by accessing **grayscale**, **RGB**, CMYK, LAB, HSB, and other scales. HSB, which addresses colors' hue, saturation, and brightness, is a useful tool for controlling color quality. Unlike the **RGB** and CMYK methods, HSB allows users to treat primary color qualities separately. In Photoshop, designers can use the **Adjustment** Layers' Blending mode to target separate color components, such as hue, saturation, color, and luminosity...

13/3,K/2

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00114912

DOCUMENT TYPE: Review

PRODUCT NAMES: Adobe Photoshop (213756)

TITLE: Arellanes Studio Melds Screen Printing, Digital Techniques

AUTHOR: Cowan, Les

SOURCE: Micro Publishing News, p32(1) Dec 1998

HOME PAGE: <http://www.micropubnews.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 19990630

...results with fewer segments for each separation. With Photoshop, Arellanes chooses discrete colors from an **RGB** file, creates a **gray scale** of each color for which a touch plate will be printed, and runs a film...

...reproduction. They were printed on clear plastic in black and white, after each color was **converted** to Photoshop's black channel. Stencils were made, and the final screenprint was done with...

13/3,K/3

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00106390 DOCUMENT TYPE: Review

PRODUCT NAMES: Compression Engine Professional Windows 95 & Windows NT  
(701351)

TITLE: Doing the Wave: Compression Engine Bests JPEG

AUTHOR: Sauer, Jeff Marlowe, Robin

SOURCE: NewMedia, v7 n15 p31(2) Nov 26, 1997

ISSN: 1060-7188

HOME PAGE: <http://www.newmedia.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20000830

...supported. Easy to use controls allow users to rotate, flip horizontally and vertically, invert color, **change** to **gray - scale**, and tweak brightness and contrast levels on **gray - scale** images. **RGB** levels for color images cannot be **adjusted**. Testers found it easier to finish prep work in Photoshop and then import images into...

13/3,K/4

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00103758 DOCUMENT TYPE: Review

PRODUCT NAMES: Paint Shop Pro 4.12 Windows 95 & NT (373656)

TITLE: The 1997 PC Magazine Shareware Awards

AUTHOR: Canter, Sheryl

SOURCE: PC Magazine, v16 n16 p219(5) Sep 23, 1997

ISSN: 0888-8509

HOME PAGE: <http://www.pcmag.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20000830

...walks the user through many options, showing a thumbnail preview of how each command will **change** the image. A unique capability usually found only in film cameras is Paint Shop Pro's ability to create double exposures. The photo retouch option can **change** framing, background darkness, opacity, and transparency. The channel splitting feature makes it possible to **change** **RGB** images into **gray - scale** images and vice versa. Image creation features include brush-based paper textures, special effects, and...

13/3,K/5

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00079726

DOCUMENT TYPE: Review

PRODUCT NAMES: CD-Q/Select (Photoshop Plug-In) 2.0 (490598)

TITLE: CD-Q 2.0

AUTHOR: Nielsen, Matthew C

SOURCE: Macworld, v12 n7 p65(1) Jul 1995

ISSN: 0741-8647

HOME PAGE: <http://www.macworld.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20001130

...Photoshop Plug In) 2.0 is an Adobe Photoshop plug-in that lets users set **conversion** and correction parameters before opening a Photo CD file. Users select one of three color models, either **gray - scale**, **RGB**, or **CMYK**. Several tools are included for cropping, rotating, mirroring, and sharpening. A densitometer is also included for sampling colors and **adjusting** highlights and shadows. The **RGB** mode lets users slide controls for red, green, and blue independently. Nine predefined monitor profiles...

...show the affected pixels. For images that are meant for four-color printing, users instead **adjust** curves for the CMYK channels with the Image Picker, which shows thumbnail previews of how...

DESCRIPTORS: Apple Macintosh; CD-ROMs; Color Matching; Color Separation; File **Conversion**; Graphics Tools; Image Processing; MacOS; Photoshop

13/3,K/6

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00071320

DOCUMENT TYPE: Review

PRODUCT NAMES: Extensis Intellihance Pro (479209)

TITLE: Intellihance

AUTHOR: Faye, Denis

SOURCE: Publish, v9 n11 p36(2) Nov 1994

ISSN: 0897-6007

HOME PAGE: <http://www.publish.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20020422

...a Photoshop plug-in that can help automate the process of enhancing a photograph by **adjusting** contrast, saturation, brightness, and other parameters. However, most professionals can already do these tasks from...

...is most helpful for batch-processing images. There are six plug-ins, two each for **gray - scale**, **RGB**, and **CMYK** images. After calling up Intellihance, a dialog box appears to allow users to...

...Intellihance Pro CMYK lets users calibrate an image to the final printing source, and PRO **RGB** offers scanner calibration.  
?



File 2:INSPEC 1969-2004/Mar W3  
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File 95:TEME-Technology & Management 1989-2004/Mar W2  
(c) 2004 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Feb  
(c) 2004 The HW Wilson Co.  
File 144:Pascal 1973-2004/Mar W3  
(c) 2004 INIST/CNRS  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 239:Mathsci 1940-2004/May  
(c) 2004 American Mathematical Society  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning  
File 483:Newspaper Abs Daily 1986-2004/Mar 30  
(c) 2004 ProQuest Info&Learning  
File 248:PIRA 1975-2004/Mar W3  
(c) 2004 Pira International

Set	Items	Description
S1	4317095	IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2	23255	GREYSCALE OR GRAYSCALE OR (GREY OR GRAY)()SCALE?
S3	269316	COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4	10408	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) AND S1 AND S2
S5	5155	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-UST?) AND S2
S6	13553	WATERMARK? OR WATER()MARK?
S7	19863	(DIGIT? OR ELECTRONIC?)(3N)(MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8	1152	STEGANOGRAPH?
S9	9155	(EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA-L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN-G) AND (S5 OR S6 OR S7)
S10	19265	AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI -J?)
S11	471	S5 AND S3
S12	67	S11 AND S9
S13	22	S12 AND PY=2000:2004
S14	45	S12 NOT S13
S15	42	RD S14 (unique items)
S16	4	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-UST?) (3N) S2 (5N) INTO (3N) S3
S17	4	S16 NOT S15
S18	2	RD S17 (unique items)

S19	1	S10 AND S5
S20	1	S19 NOT (S14 OR S18)
S21	51	S5(S)S3(S)S9
S22	44	S21 AND S1
S23	15	S22 NOT (S15 OR S19 OR S14)
S24	15	S23 AND PY=2000:2004
S25	8	RD S24 (unique items)

15/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6336694 INSPEC Abstract Number: B1999-10-6135-085, C1999-10-5260B-111

**Title: Histogram specification of 24-bit color images in the color difference (C-Y) color space**

Author(s): Weeks, A.R.; Sartor, L.J.; Myler, H.R.

Author Affiliation: Dept. of Electr. & Comput. Eng., Central Florida Univ., Orlando, FL, USA

Journal: Journal of Electronic Imaging vol.8, no.3 p.290-300

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: July 1999 Country of Publication: USA

CODEN: JEIME5 ISSN: 1017-9909

SICI: 1017-9909(199907)8:3L.290:HSCI;1-Y

Material Identity Number: P618-1999-003

U.S. Copyright Clearance Center Code: 1017-9909/99/\$10.00

Language: English

Subfile: B C

Copyright 1999, IEE

Abstract: Histogram equalization and specification have been widely used to enhance information in a **gray scale** image, with histogram specification having the advantage of allowing the output histogram to be specified...

... histogram techniques to color images is not very straightforward. Since humans are sensitive to chromatic **changes**, care must be taken to ensure that incorrect colors are not produced. Additionally, expanding the one-dimensional histogram used in gray level histogram techniques to a **joint** histogram (usually of three variables representing the primary colors of red, green, and blue) can...

Descriptors: image **colour** analysis...

15/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6292294 INSPEC Abstract Number: B1999-08-6135C-064, C1999-08-5260B-180

**Title: Color image encryption using double random phase encoding**

Author(s): Shuqun Zhang; Karim, M.A.

Author Affiliation: Dept. of Electr. Eng., Tennessee Univ., Knoxville, TN, USA

Journal: Microwave and Optical Technology Letters vol.21, no.5 p. 318-23

Publisher: Wiley,

Publication Date: 5 June 1999 Country of Publication: USA

CODEN: MOTLEO ISSN: 0895-2477

SICI: 0895-2477(19990605)21:5L.318:CIEU;1-4

Material Identity Number: M687-1999-010

Language: English

Subfile: B C

Copyright 1999, IEE

...Abstract: new encryption technique is proposed to encrypt color images using existing optical encryption systems for **gray - scale** images. The color images are **converted** to their indexed image formats before they are encoded. At the decryption end, the color images are recovered by **converting** the decrypted indexed images back to their **RGB** formats. The proposed single-channel color image encryption method is more compact and

robust than the multichannels methods. Since color information is added to the shape information, better verification performance can be achieved in optical security systems.

...Identifiers: **gray - scale** images...

... **RGB** formats

15/3,K/3 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

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5977815 INSPEC Abstract Number: B9809-6140C-116, C9809-1250-062

**Title: Invisible watermarking for image verification**

Author(s): Yeung, M.M.; Mintzer, F.C.

Author Affiliation: IBM Thomas J. Watson Res. Center, Yorktown Heights, NY, USA

Journal: Journal of Electronic Imaging vol.7, no.3 p.578-91

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: July 1998 Country of Publication: USA

CODEN: JEIME5 ISSN: 1017-9909

SICI: 1017-9909(199807)7:3L.578:IWIV;1-4

Material Identity Number: P618-98003

U.S. Copyright Clearance Center Code: 1017-9909/98/\$10.00

Language: English

Subfile: B C

Copyright 1998, IEE

**Title: Invisible watermarking for image verification**

Abstract: In this paper we propose a new method for invisibly **watermarking** high-quality color and **gray - scale** images. This method is intended for use in image verification applications to determine whether the content of an image has been **altered**, due perhaps, to the act of a malicious party. It consists of both a **watermarking** process which stamps a **watermark** into a source image without visual degradation, and a **watermark** extraction process which extracts a **watermark** from a stamped image. The extracted **watermark** can be compared with the **embedded watermark** to determine whether the image has been **altered**. The processing used in the **watermarking** and **watermark** extraction processes will be presented in this paper. In addition, we shall describe some **modifications** that provide better security, and an adaptation of the scheme to **watermark** JPEG images. Experimental results are reported. Some advantages of this technique over other invisible **watermarking** techniques for verification will be discussed; these include a high degree of invisibility, color preservation, ease of extraction, and a high degree of protection against the retention of a correct watermark after **alteration** by a malicious party.

...Descriptors: image **colour** analysis...

Identifiers: invisible **watermarking** ; ...

... **gray - scale** images...

... **watermark** extraction...

...extracted **watermark** ; ...

... **embedded watermark** ;

15/3,K/4 (Item 4 from file: 2)

DIALOG(R) File 2:INSPEC

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5899964 INSPEC Abstract Number: B9806-6140C-144, C9806-1250-065

**Title: An invisible watermarking technique for image verification**

Author(s): Yeung, M.M.; Mintzer, F.

Author Affiliation: IBM Thomas J. Watson Res. Center, Yorktown Heights, NY, USA

Conference Title: Proceedings. International Conference on Image Processing (Cat. No.97CB36144) Part vol.2 p.680-3 vol.2

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1997 Country of Publication: USA 3 vol. (111+951+892+748) pp.

ISBN: 0 8186 8183 7 Material Identity Number: XX97-02848

U.S. Copyright Clearance Center Code: 0 8186 8183 7/97/\$10.00

Conference Title: Proceedings of International Conference on Image Processing

Conference Sponsor: IEEE Signal Process. Soc

Conference Date: 26-29 Oct. 1997 Conference Location: Santa Barbara, CA, USA

Language: English

Subfile: B C

Copyright 1998, IEE

**Title: An invisible watermarking technique for image verification**

Abstract: We propose a new method for invisibly **watermarking** high-quality color and **gray - scale** images. This method is intended for use in image verification applications, where one is interested in knowing whether the content of an image has been **altered** since some earlier time, perhaps because of the act of a malicious party. It consists of both a **watermark** stamping process which **embeds** a **watermark** in a source image, and a **watermark** extraction process which extracts a **watermark** from a stamped image. The extracted **watermark** can be used to determine whether the image has been **altered**. The processing used in the stamping and extraction processes is presented. We also discuss some advantages of this technique over other invisible **watermarking** techniques for the verification application; these include a high degree of invisibility, color preservation, ease of decoding, and a high degree of protection against retention of the **watermark** after unauthorized **alterations**.

...Descriptors: image **colour** analysis...

Identifiers: invisible **watermarking** ; ...

... **gray - scale** images...

... **watermark** stamping...

... **watermark** extraction...

...unauthorized **alterations** ; ...

... **watermark** retention protection

15/3,K/5 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

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5759191 INSPEC Abstract Number: A9801-9385-012, B9801-7710-003

**Title: A multispectral imaging spectrometer with programmable wavebands**

Author(s): Wei-Song Lin; Chi-Pei Hwang; Yi-Ren Su

Author Affiliation: Inst. of Electr. Eng., Nat. Taiwan Univ., Taipei,

Taiwan

Journal: Proceedings of the National Science Council, Republic of China,  
Part A (Physical Science and Engineering) vol.21, no.5 p.416-27  
Publisher: Natl. Sci. Council, Taiwan,  
Publication Date: Sept. 1997 Country of Publication: Taiwan  
CODEN: PNAEE2 ISSN: 0255-6588  
SICI: 0255-6588(199709)21:5L:416:MISW;1-O  
Material Identity Number: P858-97005  
U.S. Copyright Clearance Center Code: 0255-6588/97/\$5.00  
Language: English  
Subfile: A B  
Copyright 1997, IEE

...Abstract: CCD (Charge Coupled Device) detector with 256\*1024 pixels, a 16-bit analog to digital **converter**, and a pushbroom scanning mechanism enable the system to detect the radiance of an object...

... CCD camera, a light source, an X-stage and a processing unit, which are successfully **integrated** to perform spectral imaging functions. During operation, the system is supervised by operating software, which...

... saved on a hard disk for further study. For immediate display of the spectral images, **gray - scale**, 16-color and artificial **RGB**-color schemes are provided to enhance the presentation. For the sake of testing and demonstration...

...Identifiers: analog to digital **converter**; ...

... **gray - scale** schemes...

...artificial **RGB**-color schemes

15/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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5467090 INSPEC Abstract Number: B9702-7230G-050

**Title: Progress on color night vision: visible/IR fusion, perception & search, and low-light CCD imaging**

Author(s): Waxman, A.M.; Gove, A.N.; Seibert, M.C.; Fay, D.A.; Carrick, J.E.; Racamato, J.P.; Savoye, E.D.; Burke, B.E.; Reich, R.K.; McGonagle, W.H.; Craig, D.M.

Author Affiliation: Lincoln Lab., MIT, Lexington, MA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)  
vol.2736 p.96-107

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1996 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1996)2736L:96:PCNV;1-7

Material Identity Number: C574-96164

U.S. Copyright Clearance Center Code: 0 8194 2117 0/96/\$6.00

Conference Title: Enhanced and Synthetic Vision 1996

Conference Sponsor: SPIE

Conference Date: 8-10 April 1996 Conference Location: Orlando, FL, USA

Language: English

Subfile: B

Copyright 1997, IEE

...Abstract: results of human perceptual testing are described for a visual search task, the detection of **embedded** small low-contrast targets

in natural night scenes. The advantages of color fusion over two **alternative grayscale** fusion products is demonstrated in the form of consistent, rapid detection across a variety of...

...Descriptors: **colour** vision

...Identifiers: **grayscale** fusion products

15/3,K/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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5320357 INSPEC Abstract Number: A9616-8170C-007, B9608-0590-020

**Title: Industrial ultrasonic imaging and microscopy**

Author(s): Gilmore, R.S.

Author Affiliation: Gen. Electr. Co., Schenectady, NY, USA

Journal: Journal of Physics D (Applied Physics) vol.29, no.6 p. 1389-417

Publisher: IOP Publishing,

Publication Date: 14 June 1996 Country of Publication: UK

CODEN: JPAPBE ISSN: 0022-3727

SICI: 0022-3727(19960614)29:6L:1389:IUIM;1-1

Material Identity Number: J132-96007

U.S. Copyright Clearance Center Code: 0022-3727/96/061389+29\$19.50

Language: English

Subfile: A B

Copyright 1996, IEE

...Abstract: developed for operation at progressively higher frequencies, now ranging from 1.0 to 100 MHz. **Conversely**, scanning acoustic microscopes made a relatively sudden appearance 20 years ago on the campus of...

... material, Z/d is established by the materials ultrasonic velocities. Pixels are the squares of **colour** or **greyscale** that make up computer displays of scanned images. Following Nyquist's criterion, the resolution of...

... in resolution can be achieved with image processing. Finally, applications studies in metals, ceramics, composites, **attachment** methods, coatings, and electronic assemblies will be used to demonstrate specific roles for imaging/microscopy...

...Identifiers: **attachment** methods

15/3,K/8 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

4712671 INSPEC Abstract Number: B9409-7260-011, C9409-7410H-002

**Title: High-performance, cost-effective computer and video interfacing to megapixel FPDs**

Author(s): Wedding, C.A.; Stoller, R.A.

Author Affiliation: Photonics Systems Inc., Northwood, OH, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.2174 p.74-8

Publication Date: 1994 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1469 7/94/\$6.00

Conference Title: Advanced Flat Panel Display Technologies

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 7-8 Feb. 1994 Conference Location: San Jose, CA, USA

Language: English  
Subfile: B C

...Abstract: FPDs which use data directly from the computing system and circumvent the analog and rescan **conversions** that occur for CRTs. Photonics has developed and produces high resolution AC plasma FPDs that...

... to 75 frames per second, 1280\*1024 full color pixel resolution and 8 bits of **gray scale** per color channel. This paper explores cost effective and high performance capabilities of the FPD-VDI and how it **integrates** with high definition computer and communications systems.

Identifiers: **colour** displays...

15/3,K/9 (Item 9 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

04227506

**Title: Optical imaging and (OCR) recognition technology (recognology)**

Author(s): Schantz, H.F.

Author Affiliation: HLS Associates, Sterling, VA, USA

Journal: Remittance and Document Processing Today vol.14, no.7 p.  
11, 13-15

Publication Date: May-June 1992 Country of Publication: USA

CODEN: RDPTE6 ISSN: 0883-5594

Language: English

Subfile: D

Abstract: Today, optical image scanners and OCR readers are capable of **converting** printed and microfilmed image and text information into digital electronic data for input, processing, and...

... to 400 dots or pixels per inch square. The author looks at optical techniques like **gray scale**, dithering, **colour**, throughput, scaling, image enhancement and image interfacing, artificial intelligence and neural networks. Applications like desktop publishing, database recognition and **conversion**, and fax are discussed. The use of **integrated** microprocessors is also examined.

...Identifiers: **gray scale** ; ...

... **colour** ; ...

... **integrated** microprocessors

15/3,K/10 (Item 10 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03173633 INSPEC Abstract Number: A88089726, B88047696

**Title: Mesopic luminous efficiency functions measured with a Lagorio's color chart**

Author(s): Yaguchi, H.; Yuki, H.; Miyake, Y.; Kubo, S.

Author Affiliation: Fac. of Eng., Chiba Univ., Japan

Journal: Journal of the Illuminating Engineering Institute of Japan  
vol.72, no.2 p.97-101

Publication Date: Feb. 1988 Country of Publication: Japan

CODEN: SHGSAR ISSN: 0019-2341

Language: Japanese



Subfile: A B

Abstract: **Change** of spectral sensitivities for mesopic vision was investigated under both the fluorescent illuminant and the natural twilight using a Lagorio's color chart made up of 24 different color strips **inserted** between 29 step **gray scales**. On each color strip of the Lagorio's color chart, there is a minimally distinct border (MDB) between the color strip and the adjacent **gray scale**. The MDBs appeared in 24 color strips to make up an envelope curve, called the...

... of illuminance. The dependence of the luminous efficiencies for the other color on the illuminance **change** is different from observer to observer. Finally, an algorithm to estimate the spectral luminous efficiency...

...Descriptors: **colour** vision

Identifiers: Lagorio **colour** chart...

... **gray scales** ;

15/3,K/11 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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02224754 INSPEC Abstract Number: A84037231, B84021875

**Title: Peak your picture with home-brew SSTV test gear**

Author(s): Cikas, B.

Journal: 73 Amateur Radio's Technical Journal no.281 p.60-1

Publication Date: Feb. 1984 Country of Publication: USA

CODEN: ARTJD8 ISSN: 0745-080X

Language: English

Subfile: A B

Abstract: Describes the design of a **gray - scale** generator and a **colour** bar generator using CMOS ICs. The **gray - scale** generator is used as a standard to **adjust** brightness and contrast levels on commercial slow-scan monitors, and to peak sync and bandpass filters on home-brew equipment. The **colour** -bar generator is useful when selecting red, green, and blue filters for **colour** slow-scan photography.

Descriptors: **colour** photography...

...field effect **integrated** circuits...

...Identifiers: **colour** photography...

... **gray - scale** generator...

... **colour** bar generator

15/3,K/12 (Item 12 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

01865550 INSPEC Abstract Number: B82030371

**Title: Infra-red image converter for testing of integrated circuits**

Journal: Elektro-Anzeiger vol.34, no.24 p.24-5

Publication Date: Dec. 1981 Country of Publication: West Germany

CODEN: EKANAJ ISSN: 0013-5518

Language: German

Subfile: B

**Title: Infra-red image converter for testing of integrated circuits**

**Abstract:** Describes an infra-red image converter using a mercury cadmium telluride crystal detector with mechanical scanning and TV display which can drive standard TV monitors, and resolves temperature changes of 0.2 deg C. Thermal pictures of an integrated circuit chip are presented. Either grey scale or colour facilities are offered by Infratek Company.

**Descriptors:** image convertors ; ...

... integrated circuit testing

**Identifiers:** integrated circuit testing...

...infrared image converter ; ...

... integrated circuit chip...

... grey scale ; ...

... colour facilities

15/3,K/13 (Item 13 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

01195365 INSPEC Abstract Number: B78025547

**Title: Preserving color television programs on black-and-white film by electronic video recording**

**Author(s):** Maekawa, A.; Iino, H.; Shigesawa, T.; Tsutada, T.

**Author Affiliation:** Nippon EVR Ltd., Mihara Plant, c/o Teijin Mihara Plant, Mihara-shi, Hiroshima-ken, Japan

**Journal:** SMPTE Journal vol.87, no.1 p.9-15

**Publication Date:** Jan. 1978 **Country of Publication:** USA

**CODEN:** SMPJDF **ISSN:** 0036-1682

**Language:** English

**Subfile:** B

...Abstract: color television programs, properties of the recorded films were measured with a fine beam microdensitometer. **Modifications** of the system, so as to use positive master and print film with an appropriate form of **grey scale**, line-scanning recording, an **added** anti-jitter code and players with line-scanning devices, were proposed and tested. It has been found that a **modified** system consisting of the recorded films with the **modifications** described and players with line sensors or a line-scanning flying-spot scanner would be...

...Identifiers: **grey scale** ; ...

... colour TV picture...

...encoded colour video signal

15/3,K/14 (Item 14 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00240834 INSPEC Abstract Number: C71008142

**Title: Graphics (Semiannual Technical Summary Report, 1 Jun 30-Nov 1969)**

**Author(s):** Forgie, J.W.

**Issued by:** MIT, Lexington, MA, USA

Publication Date: 7 Jan. 1970 Country of Publication: USA 31 pp.  
Report Number: ESD-TR-69-384 Contract Number: AF19(628)-5167  
U.S. Govt. Clearinghouse Number: AD-700316  
Language: English  
Subfile: C

...Abstract: input routines have been written for the Basic Combined Programming Language (BCPL), offering a useful **alternative** to assembly language for writing graphical subsystems on TX-2. Design work is under way ...

... regional planning has incidentally shown that the storage scope can provide quite adequate eight-level **gray - scale** area maps. Conclusions drawn from two years experience with programs that aid in the design...

...masks have led to the design of a radically different, high performance, new system for **integrated** circuit layout and mask making. Progress has been made in the development and validation of...

...Identifiers: **colour** display

15/3,K/15 (Item 15 from file: 2)  
DIALOG(R) File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00120537 INSPEC Abstract Number: B70015038

**Title: A semiconductor video output amplifier for a red blue green large screen colour television receiver**

Author(s): Poppy, D.J.

Journal: IEEE Transactions on Broadcast and Television Receivers  
vol.BTR-15, no.2 p.167-70

Publication Date: July 1969 Country of Publication: USA

CODEN: IEETAP ISSN: 0018-9308

Conference Title: Proceedings of the IEEE 1969 spring conference on broadcast and television receivers, part I

Conference Sponsor: IEEE

Conference Date: 9-10 June 1969 Conference Location: Chicago, IL, USA

Language: English

Subfile: B

**Title: A semiconductor video output amplifier for a red blue green large screen colour television receiver**

...Abstract: direct current coupled red blue green cathode ray tube drive circuit for use with an **integrated** circuit **colour** demodulator is described. This circuit meets the requirements of temperature stability, gain bandwidth and ease of cathode ray tube **gray scale** tracking **adjustment** necessary in a high quality large production **colour** television receiver. Special attention is given to the uniformity of frequency response of the three outputs, as well as to the manner in which **gray scale** tracking is accomplished.

15/3,K/16 (Item 1 from file: 6)  
DIALOG(R) File 6:NTIS  
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2234719 NTIS Accession Number: MIC-102-02915/XAB

**PRODAT enhancement and repair**

(DREA contractor report no. DREA CR 1999-048)

Maxwell, C.

Defence Research Establishment Atlantic, Dartmouth, (Nova Scotia).

Corp. Source Codes: 999999999; 0621210

c1999 27p

Languages: English

Journal Announcement: USGRDR0217

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC E07/MF E01

... Atlantic ocean acoustics signal processing program PRODAT. In this work, a harmonic mean normalizer, a **greyscale** expansion routine, and a facility for generating multiple DAT files from ping processing were **added**. Problems with short fast Fourier transforms and **colour**-direction sonogram printing were corrected. Loss of performance on the MAXION platform with newer versions...

... also investigated. For technical users, information is included on source codes, the system in which **changes** to PRODAT are stored, procedures for compiling & running PRODAT, the nature of **modifications** performed, and some issues that appeared during the course of development.

**15/3,K/17 (Item 1 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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06501233 E.I. No: EIP03357607663

**Title: The use of color in multidimensional graphical information display**

Author: Montag, Ethan D.

Corporate Source: Munsell Color Science Laboratory Chester F. Carlson Ctr. Imaging Sci. Rochester Institute of Technology, Rochester, NY, United States

Conference Title: Final Program and Proceedings of the 7th IS and T/SID Color Imaging Conference: Color Science, Systems and Applications

Conference Location: Scottsdale, AZ, United States Conference Date: 19991116-19991119

E.I. Conference No.: 61329

Source: Proceedings of the Color Imaging Conference: Color Science, Systems, and Applications 1999. p 222-226

Publication Year: 1999

Language: English

...Abstract: scales was tested in eleven subjects. Digital elevation maps (DEMs) were encoded using: 1) an **RGB gray scale** ( **RGB** ), 2) a **gray scale** based on CIELAB L\* (L\*), 3) a L\* scale with an **added** red hue component (Red L\*), 4) an L\* scale with continuous hue **change** (Spectral L\*), and 5) a **gray scale** based on luminance (Luminance). Performance was tested using an Evaluation task and a Production task...

**15/3,K/18 (Item 2 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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05318230 E.I. No: EIP99074724787

**Title: Color image encryption using double random phase encoding**

Author: Zhang, Shugun; Karim, Mohammad A.

Corporate Source: Univ of Tennessee, Knoxville, TN, USA

Source: Microwave and Optical Technology Letters v 21 n 5 1999. p 318-323

Publication Year: 1999  
CODEN: MOTLEO ISSN: 0895-2477  
Language: English

...Abstract: new encryption technique is proposed to encrypt color images using existing optical encryption systems for **gray** - scale images. The color images are **converted** to their indexed image formats before they are encoded. At the decryption end, the color images are recovered by **converting** the decrypted indexed images back to their **RGB** formats. The proposed single-channel color image encryption method is more compact and robust than the multichannels methods. Since color information is **added** to the shape information, better verification performance can be achieved in optical security systems. (Author...

Identifiers: Optical encryption systems; **Gray scale** images; Optical security systems; Optical imagery

15/3,K/19 (Item 3 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04854823 E.I. No: EIP97103898571

**Title: Multispectral imaging spectrometer with programmable wavebands**  
Author: Lin, Wei-Song; Hwang, Chi-Pei; Su, Yi-Ren  
Corporate Source: Natl Taiwan Univ, Taipei, Taiwan  
Source: Proceedings of the National Science Council, Republic of China, Part A: Physical Science and Engineering v 21 n 5 Sep 1997. p 416-427  
Publication Year: 1997  
CODEN: PNAEE2 ISSN: 0255-6588  
Language: English

...Abstract: Coupled Device) detector with 256 multiplied by 1024 pixels, a 16-bit analog to digital **converter**, and a pushbroom scanning mechanism enable the system to detect the radiance of an object...

...CCD camera, a light source, an X-stage and a processing unit, which are successfully **integrated** to perform spectral imaging functions. During operation, the system is supervised by operating software, which...

...saved on a hard disk for further study. For immediate display of the spectral images, **gray - scale**, 16-color and artificial **RGB**-color schemes are provided to enhance the presentation. For the sake of testing and demonstration...

Descriptors: Spectrometers; Remote sensing; Bandwidth; Charge coupled devices; Analog to digital **conversion**; Monochromators; Infrared imaging; Computer software

15/3,K/20 (Item 1 from file: 34)  
DIALOG(R)File 34: SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

07374509 Genuine Article#: 156PZ No. References: 38

**Title: Sonography under daylight conditions**

Author(s): Bleck JS (REPRINT); Gebel M; Witt B; Schmitt KJ; Breikopf P; WesthoffBleck M; Wagner S; Goke M; Caselitz M; Schneider A; Strassburg C; Boozari B; Manns M

Corporate Source: HANNOVER MED SCH, DIV GASTROENTEROL & HEPATOL, CARL NEUBERGER STR 1/D-30625 HANNOVER//GERMANY/ (REPRINT); SIEMENS AG, ERLANGEN USSE/D-8520 ERLANGEN//GERMANY//; SIEMENS MED SYST

INC, ULTRASOUND GRP/ISSAQUAH//WA/  
Journal: ULTRASCHALL IN DER MEDIZIN, 1998, V19, N6 (DEC), P259-264  
ISSN: 0172-4614 Publication date: 19981200  
Publisher: GEORG THIEME VERLAG, P O BOX 30 11 20, D-70451 STUTTGART,  
GERMANY  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: Purpose: **Gray scale** image assessment in clinical ultrasound  
requires working in dim light or a dark room. Daylight...

...image brightness. Materials and Methods: We investigated the possibility  
of brightness and contrast enhancement of **coloured** adaptive linear  
look-up tables (CALUTs) and their artifact resistance. Therefore under  
real-time conditions red/brown, green and blue CALUT's were calculated  
using the **gray scale** distribution (mean and standard deviation) of  
the actual image. The **changes** in contrast of several structural  
features (echo-poor and echogenic lesions, artifacts) were assessed by  
...

...sonography allows examination even in non-darkened rooms without loss of  
information. Eye adaptation to **changing** light conditions is no longer  
necessary; the offered image information is more suitable for the...

15/3,K/21 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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01768044 Genuine Article#: HZ512 No. References: 244  
Title: THE EARLY DEVELOPMENT OF NEUROSONOLOGY .3. PULSATILE  
ECHOENCEPHALOGRAPHY AND DOPPLER TECHNIQUES  
Author(s): WHITE DN  
Corporate Source: QUEENS UNIV/KINGSTON K7L 3N6/ONTARIO/CANADA/  
Journal: ULTRASOUND IN MEDICINE AND BIOLOGY, 1992, V18, N4, P323-376  
Language: ENGLISH Document Type: REVIEW (Abstract Available)

...Abstract: were displayed in various forms culminating in the display of  
their whole spectrum. Directional displays **added** further information  
and the ability to use short pulses enabled the Doppler shift and  
velocity...

...a tomogram of the surrounding tissues. Some of the two-dimensional  
Doppler scans had been **colour** -coded to display different velocities  
and, when these techniques were combined and the tomographic displays  
...

...vessel were made in real time, the Doppler information continued to be  
displayed in a **colour** code to distinguish it from the **grey scale**  
display of the tissues. As a consequence of these sophisticated  
techniques, much new information was...

...higher frequencies in the pulse, resulting from propagation through the  
skull, remains constant so that **changes** in the frequencies recorded  
by such a stationary probe represent true Doppler shifts from moving...

15/3,K/22 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01802863 ORDER NO: AADAA-I0800105

**TRANSVAGINAL COLOUR FLOW DOPPLER ASSESSMENT OF GYNAECOLOGIC TUMOURS  
(PELVIC BLOOD FLOW)**

Author: CARTER, JONATHAN ROBERT

Degree: M.D.

Year: 1998

Corporate Source/Institution: UNIVERSITY OF NEW SOUTH WALES (AUSTRALIA)  
(0423)

Source: VOLUME 60/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 3862.

**TRANSVAGINAL COLOUR FLOW DOPPLER ASSESSMENT OF GYNAECOLOGIC TUMOURS  
(PELVIC BLOOD FLOW)**

*Aims*. To evaluate the role of transvaginal colour flow Doppler (TVCFD) in the assessment of gynaecologic tumours.  
*Methods*. The study groups...

...characteristic (ROC) curves were far from ideal. The study reported in Chapter 4 confirmed that **grey scale** TVS alone, was sufficient to support a sonographic diagnosis in 68% of scans, while CFD findings were thought to **add** sufficient information that augmented questionable or **changed** the **grey scale** sonographic diagnosis in 30% of scans. Individual tumour sites were then studied. Data from Chapter 5 analyzing ovarian tumours concluded that while **grey scale** findings were accurate, CFD findings alone were unhelpful. Similar findings were obtained in Chapter 6...

...tumours of the uterine corpus. Again in Chapter 7, examination of the uterine cervix by **colour** Doppler was found unhelpful and did not enhance findings obtained by **grey scale** scanning. Finally, blood flow assessment of gestational trophoblastic tumours in Chapter 8 confirmed a correlation...

15/3,K/23 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

01343770 JICST ACCESSION NUMBER: 91A0569758 FILE SEGMENT: JICST-E  
**JPEG standards. Colored static image compression/decompression LSI,  
MB86356A.**

Fujitsu Ltd.

Gazo Denshi Gakkai Nenji Taikai Yokoshu, 1991, VOL.19th, PAGE.167-168,  
FIG.2

JOURNAL NUMBER: S0869ABQ

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

...ABSTRACT: screen for encoding.3) 640\*400 picture elements.4)  
correspondence to colored systems such as **gray scale** , RGB ,YUV and  
CYMK.It can be applied to multi-media terminals, image filing  
equipment, electronic...

...BROADER DESCRIPTORS: **integrated** circuit...

... modification ;

15/3,K/24 (Item 1 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
(c) 2004 FIZ TECHNIK. All rts. reserv.

01334961 T99080023124

**Dye from Jatropha seed**

(Farbstoff aus Jatropha-Samen)

Radhika, D; Jacob, M

The Indian Textile Journal, v109, n7, pp30-33, 1999

Document type: journal article Language: English

Record type: Abstract

ISSN: 0019-6436

**ABSTRACT:**

...mordant. To optimise the time of extraction of dye, 15 g of Jatropha seeds were **added** to four beakers containing 100 ml of alkaline solution. To optimise the time for mordanting, 0.5 % of concentration of each of four mordants of cotton were prepared. Four **colour** fastness tests of dyed cotton fabric were conducted such as, **colour** fastness to perspiration, rubbing, sunlight and washing. These tests were carried out on five dyed cotton samples according to BIS standard test procedures IS 768-1956 for **colour change** and IS 769-1956 for staining, using geometric **grey scale**. It was found that Jatropha seed extract gave best results with optimum concentration of 15...

...per 1 g of cotton fabric. 30 min time of mordanting gave best results. The **colours** obtained on cotton fabric were dark khaki, black, biscuit **colour** and greenish yellowish khaki with copper sulphate, ferrous sulphate, cobaltous sulphate and potassium dichromate and...

...acetate respectively. Cost estimation of dyeing process indicated that dyeing of cotton fabric in biscuit **colour** incurred high cost due to the higher cost of cobaltous sulphate. Dyeing of cotton fabric in black was found to be the least expensive of all **colours** due to the lower cost of ferrous sulphate.

15/3,K/25 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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1226073 H.W. WILSON RECORD NUMBER: BAST95021593

**Quantity control for JPEG image data compression using fuzzy logic algorithm**

Supangkat, Suhono Harso; Murakami, Keinosuke

IEEE Transactions on Consumer Electronics v. 41 (Feb. '95) p. 42-8

DOCUMENT TYPE: Feature Article ISSN: 0098-3063

**ABSTRACT:** The authors propose a new method of controlling the bit rate of the **Joint** Photographic Expert Group standard for continuous-tone still images in both **gray scale** and color using the fuzzy logic algorithm. Two inputs are required for this method: error and **change** in error. It is shown that error accuracy can be improved by means of this...

...not only for a digital still image system, but also for motion pictures in both **RGB** and YC format.

15/3,K/26 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal



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11142150 PASCAL No.: 93-0650449

**Digitally controlled video processor with accurate** grey - scale

GAY M J

Motorola Inc., Geneva, Switzerland

Journal: IEEE transactions on consumer electronics, 1992, 38 (2) 91-100

Language: English

**Digitally controlled video processor with accurate** grey - scale

...hue accuracy defined by a target area in the chromaticity diagram. The paper shows the **conversion** between hue errors and **RGB** drive tolerances and relates these to quantisation levels. It is demonstrated that conventional circuit techniques introduce important errors in such a processor and **alternative** approaches are described. The implementation of a fast beam current limiter is shown and formulae...

English Descriptors: Feedback; **Integrated** circuit; Processor; Cathode tube; Circuit design; Television receiver; System architecture; Digital control; Bias circuit; Current...

15/3,K/27 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00480566 97PJ12-014

**SnapScan 600 -- Scanner**

Holzberg, Carol S

PC Today , December 1, 1997 , v11 n12 p49, 1 Page(s)

ISSN: 1040-6484

Company Name: Bayer

URL: <http://www.agfa.com>

Product Name: Bayer SnapScan 600

... of SnapScan 600 (\$399) a single pass scanner from Bayer Corporation (800). Performs line art, **grayscale** , **RGB** , and CMYK scanning. Says that the cover **adjusts** to the thickness of the material being scanned. Also says that it will scan items...

... excellent bundle of software is an asset to the product. Continues that the desktop scanner **integrates** with a PC by way of a SCSI-2 interface; however, it will not work...

15/3,K/28 (Item 2 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 EBSCO Pub. All rts. reserv.

00438405 96WC10-016

**The amazing shrinking palette -- Several new components--HVS Color, Intellihance, and Quicture--help you slim down or speed up your graphics work. Developers can...**

Grunin, Lori; Dyszel, Bill; Bonner, Paul

Windows Sources , October 1, 1996 , v4 n10 p96-106, 4 Page(s)

ISSN: 1065-9641

Company Name: Digital Frontiers; Extensis; WexTech; Apiary; ForeFront

Product Name: Digital Frontiers HVS Color; Extensis Intellihance; WexTech Quicture; Apiary OCX Expert; ForeFront ForeHTML

... Extensis Intellihance v2.0 (\$99) from Extensis (800, 503), a Photoshop plug-in that optimizes **RGB**, **CMYK**, and **gray - scale** images automatically. Also covers WexTech Quicture v2.0 (\$129) from WexTech Systems (800, 212), a Microsoft Word **add -in** that offloads graphics in your documents to your hard disk; Apiary OCX Expert v1.0 (\$249) from Apiary (501), which **converts** VCL controls to ActiveX format; ForeFront ForeHTML (\$169) from ForeFront (800, 303), which **integrates** HTML input/output with ForeFront's ForeHelp help-authoring package; and WexTech's Helpsite (\$249) ...

15/3,K/29 (Item 3 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
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00387039 95MU06-015

**Intellihance Pro Collection 1.2.10: Photo-enhancing plug-in**

Benson, Jim

MacUser , June 1, 1995 , v11 n6 p57, 1 Page(s)

ISSN: 0884-0997

Company Name: DPA Software

Product Name: Intellihance Pro Collection

... DPA Software of Plano, TX (215), a suite of three multifunctioned Photoshop filters: one for **grayscale** images, one for **RGB** images, and one for **CMYK** images. Pop-up menus activate the desired effects, and if...

...of a preview option, so that you can't see exactly how the filter will **change** the image until after it is applied. Says that although the price is steep, about...

... as Photoshop, it is not a bad deal for people who regularly use Photoshop when **altering** images. Intellihance Pro Collection received three-and-one-half mice out of five. (eqb)

Descriptors: Image Processing; Filters; Macintosh; **Add -on**;  
Software Review

15/3,K/30 (Item 4 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003 EBSCO Pub. All rts. reserv.

00357516 94MU08-004

**Collage -- Specular's Photoshop companion breaks new ground in image composition.**

Benson, Jim

MacUser , August 1, 1994 , v10 n8 p44, 1 Page(s)

ISSN: 0884-0997

Company Name: Specular International

Product Name: Collage

... program, and objects can be moved to front or back and special effects can be **added** without danger of **changing** surrounding images and backgrounds. It uses 72 dpi proxies rather than 300 dpi images, so...

... with relatively small files it is quite slow. The program does not support **CMYK**, only **RGB** and **gray - scale**. It also lacks a masking tool. The vendor plans a major revision which may correct...

15/3,K/31 (Item 5 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003 EBSCO Pub. All rts. reserv.

00291533 92IW10-359

**Truth in advertising: DoDot is a complete toolbox -- Windows utility suite captures, shows, and manages a wide variety of graphics formats**

Marshall, Patrick

InfoWorld , October 26, 1992 , v14 n43 p121, 1 Page(s)

ISSN: 0199-6649

Company Name: Halcyon Software

Product Name: DoDot

... major fax formats. Says that you can crop, rotate, flip, and rescale images; you can **convert** color images to **gray - scale** and to black and white; you can create vector outlines of bit-mapped images; it will produce either **RGB** or CMYK color separations; and DoThumbnail is a useful image-file manager; but it would be helpful to have all the tools **integrated** ; it cannot handle the increasingly popular JPEG compressed file format; and it sometimes locked up...

15/3,K/32 (Item 6 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003 EBSCO Pub. All rts. reserv.

00244621 91MW07-007

**Oasis 1.0**

Biedny, David

Macworld , July 1, 1991 , v8 n7 p221-222, 2 Pages

ISSN: 0741-8647

Company Name: Time Arts

Product Name: Oasis

...a Macintosh II with 5MB RAM, System 6.0.5, 32-bit QuickDraw, color or **gray - scale** monitor. A Wacom pressure-sensitive tablet and a 24-bit color board are recommended. The program has the standard suite of drawing tools; supports HSB, **RGB** , and CMY color models; and provides several special-effects filters such as **emboss** , reveal, sharp, soft, monochrome, and video colors. A Lightbox command allows overlapping images to create a new image by tracing without **modifying** the underlying image or paint the underlying image into the foreground window. Problems with the...

15/3,K/33 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

06601356

PAPER2WEB GETS PAPER ONLINE

ASIA: NEW COMMON GROUND PAPER2WEB APPLICATION

Asia Computer Weekly (XCF) 15 Mar 1998 P.18

Language: ENGLISH

...intranets, which offers an automatic solution for direct paper documents publishing to an intranet, when **merged** with the Common Web Publisher. Common Ground Paper2Web achieves paper documents **conversion** to DigitalPaper, by using any ISIS-/TWAIN-compliant document scanner. DigitalPaper is a portable, Web...

... viewed via any Java-enabled browser and maintains a paper document's original appearance. Paper2Web **converts** electronic images like JPEG, BMP, TIFF and PCX; and supports **colour**, **grey - scale** and black-and-white documents **conversion**. The application operates on Windows 95, Windows NT 4.0 Server and costs US\$ 2...

15/3,K/34 (Item 2 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

06484425  
HP's SCANJET 5s SHIPS WITH OCR AND AUTOMATION MODE  
WORLD: NEW SCANJET 5S SCANNER LAUNCHED BY HP  
Asia Computer Weekly (XCF) 22 Jun 1997 P.14  
Language: ENGLISH

... US\$ 235 has been launched globally by Hewlett-Packard (HP). It is a 24-bit **colour** and 8-bit **greyscale** scanner providing 300 dpi optical and 600 dpi high-quality text and images. The ScanJet 5s scanner scans any **colour** /black-and-white text, photos or line art. It can permit users to automate tasks like faxing, mailing, filing, copying and producing newsletters, flyers and Web pages. The scanner can **convert** paper documents into electronic format, links with popular programmes with drag-and-drop flexibility and works with any standard Windows printer by **attaching** through the parallel port. The ScanJet scanner provides simple electronic communications and optical character recognition...

15/3,K/35 (Item 3 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

05999109  
Agfa adds **colour** scanner  
HONG KONG: AGFA INTRODUCE **COLOUR** SCANNER  
Computerworld Hong Kong (XDP) 26 May 1994 P. 30  
Language: ENGLISH

Agfa adds **colour** scanner  
HONG KONG: AGFA INTRODUCE **COLOUR** SCANNER

It was reported in Hong Kong that Agfa has **added** a new model, Horizon Plus **Colour** Scanner, to its Horizon scanner line. The Horizon Plus is a large format flatbed **colour** CCD scanner with a resolution of up to 2,540 ppi. Horizon Plus has 15...

... scanning with FotoTune LE software, a resolution range of 20 to 2,540 ppi for **greyscale** and lineart and other features. The FotoTune LE, a **colour** management software which is included, has a multidimensional **colour** look-up tables which is used during scanning. This will replaced the two-step approach of **RGB** scanning then **conversion** to CMYK in the workstation. The Horizon Plus is designed especially for professional users.

15/3,K/36 (Item 4 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

03584602

GRID COMPUTER SYSTEMS LAUNCHES GRIDCASE LAPTOP

UK - GRID COMPUTER SYSTEMS LAUNCHES GRIDCASE LAPTOP

PC Business World (PCB) 19 June 1990 p24

ISSN: 0266-8483

...Mb hard drive and an internal 3.5 in 1.44 Mb drive, 9 in **grey scaled** electroluminescent EGA compatible display with 640 x 400 resolution. As an **alternative** there is an **integral** VGA interface to drive an external **colour** display. It also features serial, parallel, keyboard boards and SCSI interface. A 80387 numeric coprocessor...

15/3,K/37 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00360803 Pira Acc. Num.: 10280683 Pira Abstract Numbers: 08-93-PT03097

**Title: CORRECTING PROCESS-COLOR IMAGES ON PRESS**

Authors: Coudray M A

Source: Screen Print. vol. 83, no. 4, Apr. 1993, pp 105-109, 130

ISSN: 0036-9594

Publication Year: 1993

Document Type: Journal Article

Language: English

Abstract: Successfully overprinting **colours** and controlling transparent shades necessitates understanding the four- **colour** process. **Colour** imbalance is basically caused by using inks with the wrong hue and strength, and not managing dot gain properly. Making **colour** separations is presented, including obtaining grey balance profiles for the inks used.

**Colour** shifts in prints usually occur with cyan and magenta. The operator should look for shifts away from **colours** on proofs. **Adjusting** ink density to match tone values on the proof is essential for correct tone range. **Colour** balance can be tested; usually black must be **added**. Dry and wet trapping are explained, with the advantages of a **colour** bar, and **colour** sequences for overprinting detailed. Finally, advice is given on obtaining correct, and adequate, **colour** strength, with the help of a **grey scale**.

Descriptors: **COLOUR** ; ...

... **COLOUR** BAR...

... **COLOUR** PRINTING...

... **COLOUR** SEPARATION...

...FOUR- **COLOUR** ;

Section Headings: Theory of **Colour** Reproduction (8233); Techniques (Screenprinting) (8351)

15/3,K/38 (Item 2 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00233783 Pira Acc. Num.: 10086311 Pira Abstract Numbers: 08-91-PU02527

**Title: THE BIG PICTURE**

Authors: Hewitt M

Source: Newspaper Focus vol. 4, no. 6, June 1991, pp 43, 45, 47  
Publication Year: 1991  
Document Type: Journal Article  
Language: English

...Abstract: a digital equivalent. Analogue wirephoto receivers can still be used as the receiver unit can **convert** the signal and improving picture quality , from 12 **grey scales** at present to 256 **grey scales** . Transmission time will fall 7.5 for **colour** to 2.5 minutes. **Attached** codes will enable automatic routing and storing.

...Descriptors: **COLOUR** ; ...

... **CONVERT** ;

15/3,K/39 (Item 3 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00227437 Pira Acc. Num.: 9985003 Pira Abstract Numbers: 08-91-PT02327

**Title: WESTINGHOUSE AND TOKYO ELECTRIC TO PRODUCE EDGE EMITTER PRINTERS**

Authors: Anon

Source: Dunn Rep. vol. 9, no. 4, Mar. 1991, pp 7-8

Publication Year: 1991

Document Type: Journal Article

Language: English

Abstract: Tokyo Electric and Westinghouse Electric Corp. have set up a **joint** venture firm, Edge Emitter Technology Inc., light source as an **alternative** to lasers, LEDs and liquid crystals. Invented by Zoltan Kun and previously called a thin-film electroluminescent (TEFL) edge-emitter array, it has potential for **grey scale** and **colour** output and several other advantages over traditional light sources. These advantages include being lighter, smaller...

Descriptors: **ALTERNATIVE** ; ...

... **COLOUR** ; ...

... **GREY SCALE** ; ...

... **JOINT VENTURE**

15/3,K/40 (Item 4 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00215659 Pira Acc. Num.: 9626760 Pira Abstract Numbers: 02-90-04279

**Title: CALIBRATION: COLOR GRAPHICS SYSTEMS FOR PROFESSIONAL PUBLISHERS AND GRAPHIC DESIGNERS FROM RADIUS**

Authors: Anon

Source: Typeworld vol. 14, no. 17, first Sept. 1990, pp 24-25

ISSN: 0194-4851

Publication Year: 1990

Document Type: Journal Article

Language: English

...Abstract: sensing hardware and advanced software, that calibrates displays for Macs, to provide predictable and repeatable **colours** and **grey scale** shades. The system displays Pantone Color simulations

accurately, enabling closely marketing screen **colour** to final output. Various lighting environments are simulated by **adjusting** the **colour** temperature of the display. Scanned images are viewed accurately using gamma correction settings. Each calibrator...

... up to five display systems, enabling cost savings, and consistent displays. The calibrator is an **integral** part of the Radius **colour** solution systems, which includes other **colour** products.

...Descriptors: **COLOUR** ; ...

... **COLOUR** TEMPERATURE...

... **GREY** **SCALE** ;

Section Headings: Properties defects and Quality control (2510); **Colour** reproduction (2230)

15/3,K/41 (Item 5 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00185670 Pira Acc. Num.: 8629895 Pira Abstract Numbers: 02-89-01539

**Title: NEW TECHNOLOGY OPENS WORLD OF GRAY SCALE PRINTING TO 300 DPI  
LASER PRINTERS**

Authors: Anon  
Source: Printout vol. 12, no. 12, Dec. 1988, pp 1-3, 8  
ISSN: 0738-6613  
Publication Year: 1988  
Document Type: Journal Article  
Language: English

**Title: NEW TECHNOLOGY OPENS WORLD OF GRAY SCALE PRINTING TO 300 DPI  
LASER PRINTERS**

Abstract: DP-Tek, Intel and Microtek Lab introduce new **grey scale** boards enabling printing high-resolution halftones on a 300 dpi Canon based laser printer. UK Thermotéknix will shortly market a similar product. The devices comprise hardware to physically **modify** the laser printers output and halftone software for **converting gray scale** image data into printable format. Such **grey scale** printing may be an **integral** part of the next generation of page printers. Canon products in particular. The hardware utilises the potential to **alter** the diode laser output in Canon CX and SX print engines by external signals transmitted through the printers built in video interface. The general notion of **converting grey scale** data into halftone output is simply that one large pixel of a given grey shade is **converted** via a look-up table into a cell of a definite number of smaller black...

...Descriptors: **CONVERT** ; ...

... **GREY** **SCALE** ;

Section Headings: **Colour** reproduction (2230); Plateless printing (2160)

15/3,K/42 (Item 6 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00162172 Pira Acc. Num.: 7658863 Pira Abstract Numbers: 05-87-01552

**Title: CAPTURING SCREENS**

Authors: McGrath R A  
Source: Comput. Graphics World vol. 10, no. 3, Mar. 1987, pp 103-104

ISSN: 0271-4159

Publication Year: 1987

Document Type: Journal Article

Language: English

Abstract: The memory-resident utility Hotshot allows users to capture, **modify** and print almost any image shown on a monitor. It handles the output from many...

... can deliver the screen as input files for Aldus' Pagemaker, Xerox' Ventura Publisher and WordPerfect. **Colours** on the captured screen may be reproduced in **gray - scale** ..Printing may be by laser, dot-matrix or the HP ThinkJet. Images may be partly highlighted or erased before printing; annotations and arrows may be **added** .

...Descriptors: **COLOUR** ;  
?



18/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03372409 INSPEC Abstract Number: C89033542

**Title: QuickDraw data structures for image processing**

Author(s): LaPotin, P.J.; McKim, H.L.

Author Affiliation: Dept. of Phys. & Astron., Dartmouth Coll., Hanover, NH, USA

Conference Title: GIS/LIS '88 Proceedings: Accessing the World. Third International Conference, Exhibits and Workshops p.35-51

Publisher: American Soc. Photogrammetry & Remote Sensing, Falls Church, VA, USA

Publication Date: 1988 Country of Publication: USA 2 vol. xvi+980 pp. p.vol.1

Conference Sponsor: American Congress on Surveying & Mapping; American Soc. Photogrammetry & Remote Sensing; Assoc. American Geographers; URISA

Conference Date: 30 Nov.-2 Dec. 1988 Conference Location: San Antonio, TX, USA

Language: English

Subfile: C

Abstract: A new graphically dependent method for **converting** binary information **into** Mac QuickDraw operating codes is investigated. The technique **converts** pixels of variable **gray scale** (usually 0-255) **into** scaled RGB intensities. The scaled intensities are stored within a pixel map that contains information on the...

18/3,K/2 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

09774922 Genuine Article#: 445UB No. References: 7

**Title: Extraction of roughness properties from captured images of surfaces**

Author(s): Gadelmäwla ES; Koura MM; Maksoud TMA (REPRINT) ; Elewa IM;

Soliman HH

Corporate Source: Univ Glamorgan, Sch Design & Adv Technol, Pontypridd CF37 1DL/M Glam/Wales/ (REPRINT); Univ Glamorgan, Sch Design & Adv Technol, Pontypridd CF37 1DL/M Glam/Wales/; Mansoura Univ, Fac Engr, Prod Engr & Mech Design Dept, Mansoura//Egypt/; Ain Shams Univ, Fac Engr, Design & Prod Engr Dept, Cairo//Egypt/; Mansoura Univ, Fac Engr, Elect & Commun Engr Dept, Mansoura//Egypt/

Journal: PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART

B-JOURNAL OF ENGINEERING MANUFACTURE, 2001, V215, N4, P555-564

ISSN: 0954-4054 Publication date: 20010000

Publisher: PROFESSIONAL ENGINEERING PUBLISHING LTD, NORTHGATE AVENUE,, BURY ST EDMUNDS IP32 6BW, SUFFOLK, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: using the bitmap image file format (BMP). A program was written in Visual C++ to **convert** the captured **colour** images **into** **gray scale** images and then to extract the grey level for each pixel and to store it...

?

20/3,K/1 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

02774678 JICST ACCESSION NUMBER: 96A0200707 FILE SEGMENT: JICST-E  
**Ultra-high resolution image processor for FA and its application.**

**MURAKAMI TOMOHIRO** (1)

(1) Santekku

Denshi Zairyo(Electronic Parts and Materials), 1996, VOL.35,NO.2,

PAGE.110-115, FIG.11, TBL.2, REF.4

JOURNAL NUMBER: F0040AAH ISSN NO: 0387-0774

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3 658.562

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**MURAKAMI TOMOHIRO** (1)

...ABSTRACT: On a defect detection algorithm, sub pixel measurement with  
whole screen pattern matching with a **gray scale** image processing,  
design rule check, cluster comparison method, and processing become the  
basis. Applications to...

...BROADER DESCRIPTORS: **modification** ;

?

25/3,K/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7173348 INSPEC Abstract Number: B2002-03-6135C-074, C2002-03-5260B-165

**Title:** Color image watermarking in the Karhunen-Loeve transform domain

Author(s): Barni, M.; Bartolini, F.; De Rosa, A.; Piva, A.

Author Affiliation: Dept. of Inf. Eng., Siena Univ., Italy

Journal: Journal of Electronic Imaging vol.11, no.1 p.87-95

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: Jan. 2002 Country of Publication: USA

CODEN: JEIME5 ISSN: 1017-9909

SICI: 1017-9909(200201)11:1L:87:CIWK;1-1

Material Identity Number: P618-2002-001

U.S. Copyright Clearance Center Code: 1017-9909/2002/\$15.00

Language: English

Subfile: B C

Copyright 2002, IEE

**Title:** Color image watermarking in the Karhunen-Loeve transform domain

**Abstract:** In the field of image watermarking, research has been mainly focused on gray scale image watermarking; the extension to the color case still represents one of the open issues watermarking researchers are faced with. To solve the problem of the correlation among image color bands, a new approach is proposed here which is based on the exploitation of...

... de-correlation property of the Karhunen-Loeve transform (KLT). The KLT is applied to the red, green, blue components of the host image, then watermarking is performed independently in the discrete Fourier transform (DFT) domain of the KL-transformed bands. In order to preserve watermark invisibility, embedding is achieved by modifying the magnitude of mid-frequency DFT coefficients according to an additive-multiplicative rule. In detection, KL de-correlation is exploited to design an optimum watermark decoder. In particular, based on the Neyman-Pearson criterion, the watermark presence is revealed by comparing a likelihood function against a threshold. Experimental results are presented proving the robustness of the algorithm against the most common image manipulations, and its superior performance with respect to techniques based on luminance watermarking.

...Descriptors: image coding...

... image colour analysis

Identifiers: color image watermarking...

... image color bands correlation

2002

25/3,K/2 (Item 1 from file: 8)

DIALOG(R) File 8:Ei Compendex(R)

(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

06656883 E.I. No: EIP03507780920

**Title:** A 17-Inch WXGA Full-Color OLED Display Using the Polymer Ink-Jet Technology

Author: Shibusawa, Makoto; Kobayashi, Michiya; Hanari, Jun; Sunohara, Kazuyuki; Ibaraki, Nobuki

Corporate Source: Toshiba Matsushita Display T.C., L., Fukaya-shi 366-0032, Japan

Source: IEICE Transactions on Electronics v E86-C n 11 November 2003. p 2269-2274

Publication Year: 2003

CODEN: IELE EJ ISSN: 0916-8524

Language: English

...Abstract: luminance uniformity. A pixel circuit having Vth variation-cancellation was adopted and the circuit was **modified** to realize high uniformity and high **gray scale** reproduction under the short horizontal period operation. Correction on gamma profile difference among **RGB** OLEDs was achieved by optimizing on configuration between **integrated** source driver circuit and outer reference voltage circuit in spite of using a common source...  
...that is important for the large size and high luminance display, was utilized and improved **image** quality on human feeling and actual power consumption, With these efforts a uniform **picture** with 260,000 colors and wide viewing angle was achieved. It was proved that the...

25/3,K/3 (Item 1 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

12323073 Genuine Article#: 752LD No. References: 25

Title: **The creation of inter-ethnic images for studies in applied psychology**

Author(s): Vanezis M; Vanezis P (REPRINT) ; Minnis H; McMillan A; Gillies M ; Smith S

Corporate Source: Univ Glasgow, Dept Forens Med & Sci, Glasgow G12 8QQ/Lanark/Scotland/ (REPRINT); Univ Glasgow, Dept Forens Med & Sci, Glasgow G12 8QQ/Lanark/Scotland/; Home Off Forens Sci Serv, Dept Forens Med Sci, London SE1 7LP//England/; Univ Glasgow, Sect Psychol Med, Glasgow G12 8QQ/Lanark/Scotland/; Royal Hosp Sick Children, Yorkhill NHS Trust, Dept Child & Family Psychiat, Glasgow/Lanark/Scotland/; Univ London, Inst Psychiat, London WC1E 7HU//England/

Journal: MEDICINE SCIENCE AND THE LAW, 2003 , V43, N4 (OCT), P301-306

ISSN: 0025-8024 Publication date: 20031000

Publisher: CHILTERN PUBLISHING, 34 AYLESBURY END, BEACONSFIELD HP9 1LW, BUCKS, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: **The creation of inter-ethnic images for studies in applied psychology**

, 2003

...Abstract: Glasgow for forensic and historical cases. It was applied to the creation of inter-ethnic **images** for use in studies to assess the response of various groups to facial appearance in the assessment of racial stereotyping.

We initially acquired a three-dimensional facial **image** from a young black (Negroid) male volunteer, using our optical laser scanning system. This **image** was then used as a template over a Caucasian skull to produce a reconstruction using facial criteria applicable to white (Caucasian) males. The other **image** used was that of the facial template of the black male.

A commercially available electronic identikit system, E-FIT(TM) was then used to **add** appropriate hair styles and open eyes to both **images** . In addition, on the 'Caucasian reconstruction' we were able to reduce the contrast and lighting on the face. This was relatively

straightforward as we were using **greyscale images** rather than **colour**. The shape of the nose and lips on the white male were also **altered** to be more in keeping with Caucasoid average measurements.

The resulting **images** were shown to a group of second-year clinical psychology students and their responses are discussed. Similar **images** may also be used in studies of racial stereotyping in different categories of professionals such...

25/3,K/4 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

12163567 Genuine Article#: 736PT . No. References: 31  
**Title: Estimation of inflammation by Doppler ultrasound: quantitative changes after intra-articular treatment in rheumatoid arthritis**  
Author(s): Terslev L (REPRINT) ; Torp-Pedersen S; Qvistgaard E; Danneskiold-Samsøe B; Bliddal H  
Corporate Source: Frederiksberg Univ Hosp, Dept Rheumatol, Parker Inst, DK-2000 Frederiksberg//Denmark/ (REPRINT); Frederiksberg Univ Hosp, Dept Rheumatol, Parker Inst, DK-2000 Frederiksberg//Denmark/  
Journal: ANNALS OF THE RHEUMATIC DISEASES, 2003 , V62, N11 (NOV), P 1049-1053  
ISSN: 0003-4967 Publication date: 20031100  
Publisher: B M J PUBLISHING GROUP, BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE, LONDON WC1H 9JR, ENGLAND  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

, 2003  
...Abstract: Methods: 51 patients with RA were followed prospectively after an intra-articular glucocorticosteroid injection. Disease **modifying** antirheumatic drug treatment was kept unchanged and no further injections given in this observation period. At baseline, disease activity was estimated clinically by target **joint** pain on a 100 mm visual analogue scale, on which the target **joint** was scored 0-3 for swelling and tenderness, and by ultrasound measurements of **grey scale** pixels, **colour** Doppler pixels, and the spectral Doppler resistive index (RI) as indicators of synovial swelling and inflammation. After four weeks, the measurements were repeated on the same **joint**. An observer unaware of the sequence and patient number evaluated the ultrasound **images**.

Results: At one month follow up after the glucocorticosteroid injection, a marked decrease in the...

...a promising tool for the estimation of synovial activity in arthritis. After intra-articular glucocorticosteroid, **changes** in RI and fraction of **colour** pixels may both be used as quantitative measurements of the blood flow.

25/3,K/5 (Item 3 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

11006409 Genuine Article#: 595AN No. References: 32  
**Title: Myocardial abnormalities in hypertensive patients with normal and abnormal left ventricular filling: a study of ultrasound tissue characterization and strain**

Author(s): Yuda S; Short L; Leano R; Marwick TH (REPRINT)  
Corporate Source: Univ Queensland, Princess Alexandra Hosp, Dept Med, Ipswich  
Rd/Brisbane/Qld 4102/Australia/ (REPRINT); Univ Queensland, Princess  
Alexandra Hosp, Dept Med, Brisbane/Qld 4102/Australia/  
Journal: CLINICAL SCIENCE, 2002, V103, N3 (SEP), P283-293  
ISSN: 0143-5221 Publication date: 20020900  
Publisher: PORTLAND PRESS, 59 PORTLAND PLACE, LONDON W1N 3AJ, ENGLAND  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

, 2002

...Abstract: in hypertensive LV hypertrophy (LVH). We sought to elucidate the relative contributions of myocardial structural **changes**, loading and hypertrophy to LV dysfunction in 113 patients: 85 with hypertensive LVH and 28...

...LVH patients, based on Doppler measurement of transmitral filling and annular velocities. All patients underwent **grey - scale** and **colour** tissue Doppler **imaging** from three apical views, which were stored and analysed off line. **Integrated** backscatter (113) and strain rate **imaging** were used to detect **changes** in structure and function; average cyclic variation of 113, strain rate and peak systolic strain ...

25/3,K/6 (Item 4 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

10984664 Genuine Article#: 591WE No. References: 32

**Title: The uses of colour vision: behavioural and physiological distinctiveness of colour stimuli**

Author(s): Derrington AM (REPRINT) ; Parker A; Barraclough NE; Easton A; Goodson GR; Parker KS; Tinsley CJ; Webb BS  
Corporate Source: Sch Psychol, Univ Pk/Nottingham NG7 2RD//England/ (REPRINT); Sch Psychol, Nottingham NG7 2RD//England/  
Journal: PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES, 2002, V357, N1424 (AUG 29), P975-985  
ISSN: 0962-8436 Publication date: 20020829  
Publisher: ROYAL SOC LONDON, 6 CARLTON HOUSE TERRACE, LONDON SW1Y 5AG, ENGLAND  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

, 2002

Abstract: **Colour** and **greyscale** (black and white) pictures look different to us, but it is not clear whether the difference in appearance is a consequence of the way our visual system uses **colour** signals or a by-product of our experience. In principle, **colour images** are qualitatively different from **greyscale images** because they make it possible to use different processing strategies. **Colour** signals provide important cues for segmenting the **image** into areas that represent different objects and for linking together areas that represent the same object. If this property of **colour** signals is exploited in visual processing we would expect **colour** stimuli to look different, as a class, from **greyscale** stimuli. We would also expect that **adding colour** signals to **greyscale** signals should **change** the way that those signals are processed. We have investigated these questions in behavioural and...

...We find that male marmosets (all of which are dichromats) rapidly learn to distinguish between **colour** and **greyscale** copies of the same

**images** . The discrimination transfers to new **image** pairs, to new **colours** and to **image** pairs in which the **colour** and **greyscale** **images** are spatially different.

We find that, in a proportion of neurons recorded in the marmoset

...

...luminance stimulus.

We conclude that colour is, both behaviourally and physiologically, a distinctive property of **images** .

25/3,K/7 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01924906 ORDER NO: AADAA-INQ74608

**Texture synthesis using convolution and nonlinear mapping**

Author: Mould, David Robert

Degree: Ph.D.

Year: 2002

Corporate Source/Institution: University of Toronto (Canada) (0779)

Source: VOLUME 63/12-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 5938. 168 PAGES

ISBN: 0-612-74608-9

Year: 2002

...be an octave in a summed texture.

We extend our method's ability to generate **greyscale** texture to permit **coloured** texture. Though good spatial coherence and continuity of **colour** is observed, control over the specific **colours** expressing texture features is difficult to accomplish within our original framework; to address this, we present a simple method for recolouring **images** , based on radial basis functions.

25/3,K/8 (Item 1 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00631428 Pira Acc. Num.: 20223568

**Title: Greyscale delivers quality: technology for ink jet printing**

Authors: Anon

Source: Print Pap. Eur. vol. 14, no. 9, Dec. 2002, pp 32-33

ISSN: 0955-7806

Publication Year: 2002

Document Type: Journal Article

Language: English

Publication Year: 2002

Abstract: **Greyscale** technology will help the next generation of digital ink jet printers to deliver high quality output. This technology produces an **image** in a precise way providing a small **change** of **colour** and shade. A new development in ink jet technology is a full production **greyscale** print head from Xaar plc and is an innovation in **greyscale** technology. The new Leopard **greyscale** print head can produce high quality output on a range of substrates. The **greyscale** ink jet print head is not a black and white technology. The print head fires a range of up to

16 different drop sizes on demand. These droplets **merge** to form different size pixels. The different sized ink drops are placed on the substrate at the same time, which results in smooth **changes** of shade and **colour** .

**Greyscale** ink jet technology claims to produce near **photographic** printing output onto plastics, CDs and a range of packaging materials. Dotrix's The.factory uses Xaar's **greyscale** ink jet print heads. (www.xaar.co.uk).

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File 344:Chinese Patents Abs Aug 1985-2004/Mar  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2003/Nov(Updated 040308)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200419  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	1710713	IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2	4018	GREYSCALE OR GRAYSCALE OR (GREY OR GRAY) ()SCALE?
S3	324650	COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4	1224	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) AND S1 AND S2
S5	1643	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJUST?) AND S2
S6	4310	WATERMARK? OR WATER()MARK?
S7	8669	(DIGIT? OR ELECTRONIC?) (3N) (MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8	140	STEGANOGRAPH?
S9	4377	(EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRAL? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDING) AND (S5 OR S6 OR S7)
S10	10251	AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI - J?)
S11	3	S10 AND S5
S12	90	S4 AND (CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJUST?) AND S9
S13	862386	IC=(H04N? OR G06T?)
S14	49	S12 AND S13
S15	7	S14 AND AD=19991118:20001231/PR
S16	7	S14 AND AD=20010101:20040331/PR
S17	13	(S15 OR S16)
S18	36	S14 NOT S17
S19	36	IDPAT (sorted in duplicate/non-duplicate order)
S20	34	IDPAT (primary/non-duplicate records only)
S21	83	S4(S) (CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJUST?) (S)S9
S22	15	S21 AND S3
S23	7	S22 AND S13
S24	0	S23 AND AD=19991118:20001231/PR
S25	0	S23 AND AD=20010101:20040331/PR
S26	169	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) (3N)S1(3N)S2
S27	2	S26(5N) (CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJUST?) (5N)S3
S28	2	S27 NOT (S11 OR S23)
S29	6	S26 AND S9
S30	6	S29 NOT (S11 OR S23 OR S28)
S31	1	S30 AND AD=19991118:20001231/PR
S32	0	S30 AND AD=20010101:20040331/PR
S33	5	S30 NOT S31
S34	5	IDPAT (sorted in duplicate/non-duplicate order)
S35	5	IDPAT (primary/non-duplicate records only)

11/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

06921237 \*\*Image available\*\*  
IMAGE PROCESSING UNIT AND METHOD AND STORAGE MEDIUM

PUB. NO.: 2001-148776 [JP 2001148776 A]  
PUBLISHED: May 29, 2001 (20010529)  
INVENTOR(s): MURAKAMI TOMOCHIKA  
HAYASHI JUNICHI  
APPLICANT(s): CANON INC  
APPL. NO.: 11-328427 [JP 99328427]  
FILED: November 18, 1999 (19991118)  
INTL CLASS: H04N-001/387; G06T-001/00; H04N-001/41; H04N-001/46

ABSTRACT

PROBLEM TO BE SOLVED: To efficiently imbed electronic watermark information to a **gray scale** image while suppressing deterioration in the image quality.

SOLUTION: The image processing unit that imbeds electronic watermark information to a monochrome image is provided with an entry means that inputs monochrome image data one pixel of which consists of one component, a **conversion** means that **converts** the format of the monochrome data into the format of color image data one pixel of which consists of a plurality of components, and an imbedding means that imbeds the electronic watermark information not to all of the components of the color image data obtained by the **conversion** means but to part of the components.

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11/5/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010857232 \*\*Image available\*\*  
WPI Acc No: 1996-354185/199635  
Related WPI Acc No: 1990-143781; 1992-234239  
XRPX Acc No: N96-298735

Image processing system for both line and half-tone images - has discrimination and selection units to determine if point to be processed belong to line image or pseudo gray scale image area and accordingly treats data

Patent Assignee: HITACHI LTD (HITA )  
Inventor: FUJINAWA M; FUJISAWA H; KUROSU Y; MASUZAKI H; MURAKAMI T  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
US 5539843 A 19960723 US 88272447 A 19881117 199635 B  
US 92832700 A 19920207

Priority Applications (No Type Date): JP 88240973 A 19880928; JP 87292026 A 19871120

Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
US 5539843 A 54 G06K-009/38 Div ex application US 88272447  
Div ex patent US 5125045

Abstract (Basic): US 5539843 A

The image processing system (100) has an image memory for temporarily storing a binary image data. A device (700) determines, on the basis of the stored data, one of a line image area and a pseudo **gray scale** image area to which a point to be processed belongs. The stored data is scanned, on an arbitrary coordinate system, with a first scan window of  $m1 \times n1$  pixel, where  $m1 \times n1$  is greater than 1, when a pseudo **gray scale** image area is determined.

A **converter** (380) then transforms the scanned image data into multi-valued **gray scale** image data. The data is scanned with a scan window of  $m2 \times n2$  pixel, where  $m2 \times n2$  is greater than 1, when it is determined that the point to be processed belongs to the line image area. A device **converts** the first binary image data of  $m2$  multiplied by  $n2$  pixels scanned with the second scan window into second binary image data.

ADVANTAGE - Can subject composite image to **conversion** process. Correctly discriminates between line image and pseudo half tone image in composite image.

Dwg.1/41

Title Terms: IMAGE; PROCESS; SYSTEM; LINE; HALF; TONE; IMAGE; DISCRIMINATE; SELECT; UNIT; DETERMINE; POINT; PROCESS; BELONG; LINE; IMAGE; PSEUDO; GRAY; SCALE; IMAGE; AREA; ACCORD; TREAT; DATA

Derwent Class: T01; W02

International Patent Class (Main): G06K-009/38

International Patent Class (Additional): H04N-001/40

File Segment: EPI

11/5/3 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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009106808 \*\*Image available\*\*

WPI Acc No: 1992-234239/199228

Related WPI Acc No: 1990-143781; 1996-354185

XRPX Acc No: N92-178344

Binary image processing system for document - converts data by calculating multivalued **gray scale** image and adjusting image data so as to match output device

Patent Assignee: HITACHI LTD (HITA )

Inventor: FUJINAWA M; FUJISAWA H; KUROSHU Y; MASUZAKI H; MURAKAMI T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5125045	A	19920623	US 88272447	A	19881117	199228 B

Priority Applications (No Type Date): JP 88240973 A 19880928; JP 87292026 A 19871120

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5125045	A		59	G06K-009/38	

Abstract (Basic): US 5125045 A

Both line image processing and dither image processing are carried out in parallel, and one of the processed results is selected in accordance with an image region discrimination result. The dither image processing is carried out through data **conversion** for calculating multivalued **grey scale** image from the inputted image data, and **grey scale** data **conversion** for adjusting the **grey scale** image data so as to match an output device, and obtaining **adjusted**

grey scale image data.

Re-binarisation is carried out for re-binarising the grey scale image data after grey scale conversion . The image region discrimination for discriminating if an image region is of a line image or a dither image is carried out based on a ratio of the number of black or white pixels within the region to the contour line length within the range. An ordered dither image through a screened type dither matrix is discriminated in accordance with a correlation between adjacent pixel trains each having a predetermined number of pixels.

ADVANTAGE - Provides arbitrary magnification/reduction without lowering image quality.

Dwg.1/41

Title Terms: BINARY; IMAGE; PROCESS; SYSTEM; DOCUMENT; CONVERT ; DATA;  
CALCULATE; GRAY; SCALE; IMAGE; ADJUST ; IMAGE; DATA; SO; MATCH; OUTPUT;  
DEVICE

Derwent Class: T04; W02

International Patent Class (Main): G06K-009/38

File Segment: EPI

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23/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011656808 \*\*Image available\*\*  
WPI Acc No: 1998-073716/199807  
XRPX Acc No: N98-059087

**Vehicle detector for parking area - has conversion table which is used to correct grey scale image so that image will have uniform brightness**

Patent Assignee: DOSHISU KK (DOSH-N); NAGOYA DENKI KOGYO KK (NAGM )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
JP 9311927 A 19971202 JP 96129957 A 19960524 199807 B

Priority Applications (No Type Date): JP 96129957 A 19960524

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 9311927 A 9 G06T-001/00

**Vehicle detector for parking area...**

...has conversion table which is used to correct grey scale image so that image will have uniform brightness

...Abstract (Basic): The detector has a colour camera (20) which photographs a parking space and produces an image . A decoder (1) extracts the red, green, and blue values of the image . An A-D converter . (2) digitises the RGB values which are used by a central processing unit (4) to produce an integrated image which is used to produced a grey scale image .

...

...A conversion table (9) is used to correct the grey scale image so that the image will have uniform brightness. A final colour image is obtained by multiplying the corrected grey scale image to the integrated image .

...Title Terms: DETECT ;

International Patent Class (Main): G06T-001/00

23/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010237898 \*\*Image available\*\*  
WPI Acc No: 1995-139155/199518  
XRPX Acc No: N95-109374

**Digital printer colour system - has memory storing pixel colour values, processor alters colour values according to determined gray value, prioritises and determines which to print at each location**

Patent Assignee: HEWLETT-PACKARD CO (HEWP )  
Inventor: DISPOTO G J; FITZHUGH A E; MCGUIRE M D; MOTTA R J  
Number of Countries: 006 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5402245	A	19950328	US 94187567	A	19940127	199518 B
EP 665679	A2	19950802	EP 95300498	A	19950126	199535
JP 7274029	A	19951020	JP 9510597	A	19950126	199551
EP 665679	A3	19960515	EP 95300498	A	19950126	199628

EP 665679	B1	20011205	EP 95300498	A	19950126	200203
DE 69524270	E	20020117	DE 624270	A	19950126	200213
			EP 95300498	A	19950126	

Priority Applications (No Type Date): US 94187567 A 19940127

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5402245	A		11	H04N-001/21	
EP 665679	A2 E		12	H04N-001/60	
Designated States (Regional): DE FR GB IT					
JP 7274029	A		11	H04N-001/60	
EP 665679	A3			H04N-001/21	
EP 665679	B1 E			H04N-001/60	
Designated States (Regional): DE FR GB IT					
DE 69524270	E			H04N-001/60	Based on patent EP 665679

**Digital printer colour system...**

...has memory storing pixel colour values, processor alters colour values according to determined gray value, prioritises and determines which to print at each location

...Abstract (Basic): The system memory (14) stores planes of C,M,Y and K colour values for each pixel in the colour image. The processor (10) is coupled to the memory. The processor determines (36) the gray value for each pixel location. It is determined from the stored colour values (28,30,32,34). It subtracts a determined gray value per pixel location from...

...It creates changed colour values for each pixel location based on the gray values location in the curve. If...

...it is in the second segment, part of the gray value is added to the colour values and part to the K colour value. If it is in the third curve segment all the gray values are added...

...clarity, automatically determines if gray scale should be represented by black dot or combination of colour dots...

...Title Terms: COLOUR ;

International Patent Class (Main): H04N-001/21 ...

... H04N-001/60

...International Patent Class (Additional): H04N-001/52

**23/3,K/3 (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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010188261 \*\*Image available\*\*

WPI Acc No: 1995-089515/199512

XRPX Acc No: N95-070785

Image drawing appts. for raster display - produces edge list, indicating line segments defined by crossing points between scanning lines and drawing lines and colour density, respective line segments and converts into second adjusted for gradation

Patent Assignee: FUJI XEROX CO LTD (XERF )

Inventor: ONOZAWA Y

Number of Countries: 002 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5388166	A	19950207	US 93137799	A	19931019	199512 B

JP 3223617	B2	20011029	JP 92343496	A	19921130	200171
JP 2001312735	A	20011109	JP 92343496	A	19921130	200207
			JP 200184301	A	19921130	
JP 3452049	B2	20030929	JP 92343496	A	19921130	200364
			JP 200184301	A	19921130	

Priority Applications (No Type Date): JP 92343496 A 19921130; JP 200184301 A 19921130

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5388166	A		22	G06K-009/00	
JP 3223617	B2		17	G06T-011/20	Previous Publ. patent JP 6168334
JP 2001312735	A		13	G06T-011/40	Div ex application JP 92343496
JP 3452049	B2		13	G06T-011/40	Div ex application JP 92343496
					Previous Publ. patent JP 2001312735

Image drawing appts. for raster display...

...list, indicating line segments defined by crossing points between scanning lines and drawing lines and colour density, respective line segments and converts into second adjusted for gradation

...Abstract (Basic): A command received at an **image** data input section is sent to a vector production section, in which, when the command is a font, it is **converted** into vector data using data stored in a font data storage section. A **graphic** edge list production section produces, from the vector data, an edge list processed in the...

...times. The edge list is referred to in units of n scanning lines by a **grey scale** processing section, by which a new edge list with which a portion **determined** to be an edge of a figure is to be drawn in a half tone...

Title Terms: **IMAGE** ;

...International Patent Class (Main): **G06T-011/20** ...

... **G06T-011/40**

**23/3,K/4 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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008490941 \*\*Image available\*\*

WPI Acc No: 1990-377941/199051

XRPX Acc No: N90-288037

**Generating binary representation of image - allocates one of two colours to each pixel in pixel group, after determining required numbers**

Patent Assignee: CROSFIELD ELECTRONICS LTD (CROE )

Inventor: ROE M D; ROE M D M

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 403226	A	19901219	EP 90306387	A	19900612	199051 B
JP 3114365	A	19910515	JP 90152925	A	19900613	199126
US 5121223	A	19920609	US 90537734	A	19900614	199226
EP 403226	B1	19941130	EP 90306387	A	19900612	199501
DE 69014425	E	19950112	DE 614425	A	19900612	199507
			EP 90306387	A	19900612	

Priority Applications (No Type Date): GB 8913680 A 19890614

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 403226		A			
Designated States (Regional): DE GB					
US 5121223	A		8	H04N-001/387	
EP 403226	B1	E	12	H04N-001/40	
Designated States (Regional): DE GB					
DE 69014425	E			H04N-001/40	Based on patent EP 403226

... allocates one of two colours to each pixel in pixel group, after determining required numbers

...Abstract (Basic): RAM (3) and sampled by a CPU (4). Each pixel is allocated one of two **colours** according to an algorithm performed by the CPU. The transformed pixel group is then stored...

...A **colour** value is obtained for each pixel and **modified** into a unique value according to its group position. One **colour** is assigned to a **calculated** number of higher value pixels with the remaining pixels being assigned the second **colour**, transforming each pixel group into a binary representation...

...Abstract (Equivalent): in half-tone form, in which the image is scanned and sampled to obtain a **colour** value representing the **colour** component content of each sampled pixel, and in which each pixel corresp. to a sample of the image is assigned one of two **colours** (W,B), the method comprising, for each group of abutting and non-overlapping sampled pixels...

...of pixels in the group which are to be assigned to each of the two **colours**; allocating (15) a unique sequence to the pixels; and assigning (16,17) one of the two **colours** to pixels in sequential order according to the unique sequence until the predetermined number of pixels of that **colour** has been assigned and thereafter assigning the other **colour** to the remaining pixels in the group, wherein each sampled pixel has a **colour** content represented by a **grey scale** value where the **grey scale** is one of a finite number of steps between the **colour** values of white and black, and wherein the allocating step (15) comprises **modifying** the sampled **grey scale** value associated with each pixel within the group by **adding** respective unique values to each **grey scale** value; wherein the one of the two **colours** is assigned to pixels in sequential order of **modified** grey level value according to the unique sequence until the predetermined number of pixels of that **colour** has been assigned (16) and the other **colour** is assigned to the remaining pixels in the group thereafter (17); characterised in that each unique value has a magnitude less than the value of one step in the **grey scale**; whereby each unique value **modifies** its respective **grey scale** value such that no two **modified grey scale** values are the same...

...Abstract (Equivalent): and each pixel corresp. to a sample of the image is assigned one of two **colours**. For each group of abutting and non-overlapping sampled pixels, the number of pixels in the group which are to be assigned to each of the two **colours** is determined (step 13). A unique sequence is allocated to the pixels (step 15); and one of the two **colours** is assigned to pixels in sequential order until the predetermined number of pixels of that **colour** has been assigned (step 16). Thereafter the other **colour** is assigned to the remaining pixels in the group (step 17). USE - For facsimile, for...

...Title Terms: **COLOUR**;

International Patent Class (Main): H04N-001/387 ...



... H04N-001/40

23/3,K/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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004352069  
WPI Acc No: 1985-178947/198530  
XRPX Acc No: N85-134575

**Inspection appts. for determination of presence of parts in mfg. - uses processor to form grey-scale digitisation of image supplied to manned monitor or memory device**

Patent Assignee: HONEYWELL INC (HONE )  
Inventor: BOCCHI C J; EIDE D A; HART R A  
Number of Countries: 008 Number of Patents: 007  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 149231	A	19850724	EP 84116206	A	19841222	198530 B
US 4590511	A	19860520	US 84567710	A	19840103	198623
JP 61088378	A	19860506	JP 84281889	A	19841228	198624
CA 1226061	A	19870825				198738
EP 149231	B	19900117				199003
DE 3481084	G	19900222				199009
KR 9208075	B1	19920922	KR 848466	A	19841228	199410

Priority Applications (No Type Date): US 84567710 A 19840103

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 149231	A	E 16		
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Designated States (Regional): DE FR GB IT

EP 149231	B	E		
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Designated States (Regional): DE FR GB IT

KR 9208075	B1		G01J-003/46	
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...Abstract (Basic): The appts. comprises a **colour** television camera (20) focusing on the object in question (12) and delivering a composite **colour** signal to a **colour** converter (22). In the converter a bandpass-filtered composite signal is applied to a commercial chroma processor, a phase encoder and a track-and-hold circuit, to produce a **grey scale** analog of the hue components of the composite signal (21), which is then recombined with the initial information to produce a **modified colour** encoded signal (13) which is acceptable to the **image** processor (14...).

...Abstract (Equivalent): Apparatus for inspecting objects with respect to their **colour**, characterised by first means (45) isolating the chroma information (i.e. hue and saturation) from a composite video **colour** signal; and second means (54-63) transforming said chroma information into an analog voltage having...

...Abstract (Equivalent): The circuit isolates the chroma information from composite video **colour** signal having a quadrature modulated **colour** subcarrier. A device transforms the phase encoded hue information of the quadrature modulated subcarrier into unique analog voltages. A device isolates the chroma information from a quadrature modulated **colour** subcarrier video signal. A device connected to receive the **colour** information supplies a pair of **alternating** voltage outputs comprising a reference voltage and a signal voltage having **distinguishable** levels uniquely representative of **distinguishable** hues of the video signal. Two zero crossing circuits are connected to

the **alternating** voltages respectively...

...USE/ADVANTAGE - Industrial inspection of manufactured objects, where  
**colour** is part of inspection processing capacitors. (6pp)t  
...International Patent Class (Additional): **H04N-007/18** ...

... **H04N-009/64** ...

... **H04N-011/00**

**23/3,K/6** (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

004259997

WPI Acc No: 1985-086875/198514

Related WPI Acc No: 1984-011727

XRPX Acc No: N85-064959

**Driver circuit applying video input signal to display - provides  
automatic gray scale adjustments and achieves elimination of  
contrast tracking errors**

Patent Assignee: MOTOROLA INC (MOTI )

Inventor: NEWTON A D; PERKINS G W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4506292	A	19850319	US 84657467	A	19841003	198514 B

Priority Applications (No Type Date): US 84657467 A 19841003; US 82388281 A  
19820614

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4506292	A	7		

... **provides automatic gray scale adjustments and achieves  
elimination of contrast tracking errors**

...Abstract (Basic): is modulated by a common contrast control signal such  
that a brightness control pedestal is **added** to each video signal path  
of a video display so that the **picture** black level does not **change**  
with contrast...

...of gain between red, green and blue video signal paths in a video  
display. Automatic **gray scale adjustment** and eliminatio n of  
contrast tracking errors. Accurate tracking of **colour** difference  
signals (R-Y and B-Y) in video display. Obviates the burn-in  
requirement...

International Patent Class (Additional): **H04N-005/14** ...

... **H04N-009/53**

**23/3,K/7** (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

003024382

WPI Acc No: 1981-C4396D/198112

**Converting one bit image data to gray scale data - using raster**

scanning half-tone image and thresholding resultant analogue voltage to produce six-bit gray scale output

Patent Assignee: XEROX CORP (XERO )

Inventor: LIAO H H

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 24902	A	19810311	EP 80302925	A	19800822	198112 B
US 4259694	A	19810331				198116
EP 24902	B	19841227				198501
DE 3069867	G	19850207				198507

Priority Applications (No Type Date): US 7969444 A 19790824

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 24902	A	E		
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Designated States (Regional): DE FR GB

EP 24902	B	E		
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Designated States (Regional): DE FR GB

Converting one bit image data to gray scale data...

...using raster scanning half-tone image and thresholding resultant analogue voltage to produce six-bit gray scale output

...Abstract (Basic): For each input bit representing a **picture** element an **integrator** sums the number of 'one' bits in a given area surrounding the current input bit and an adder sums the result to the output of an edge extractor which **determines** an edge correction valve by **calculating** the rate at which the input bits in the given area are **changing** in **colour** in orthogonal directions. The resulting output is a multi-bit per **picture** element **gray scale** output signal...

...Abstract (Equivalent): For each input bit representing a **picture** element an **integrator** sums the number of 'one' bits in a given area surrounding the current input bit and an adder sums the result to the output of an edge extractor which **determines** an edge correction valve by **calculating** the rate at which the input bits in the given area are **changing** in **colour** in orthogonal directions. The resulting output is a multi-bit per **picture** element **gray scale** output signal...

Title Terms: **CONVERT** ;

...International Patent Class (Additional): **H04N-001/40**

?

28/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

011918758 \*\*Image available\*\*  
WPI Acc No: 1998-335668/199830  
XRPX Acc No: N98-261987

**Image converting method in computer system - involves determining colour assigned to pixels in each gray-level in converted image and specifying representation of converted image using determined second gray - scale representation and determined colours**

Patent Assignee: SUN MICROSYSTEMS INC (SUNM )  
Inventor: GAJEWSKA H  
Number of Countries: 026 Number of Patents: 005  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 851390	A2	19980701	EP 97309552	A	19971125	199830 B
JP 10198336	A	19980731	JP 97368871	A	19971229	199841
US 5914723	A	19990622	US 96777755	A	19961230	199931
EP 851390	B1	20030219	EP 97309552	A	19971125	200314
DE 69719164	E	20030327	DE 619164	A	19971125	200329
			EP 97309552	A	19971125	

Priority Applications (No Type Date): US 96777755 A 19961230  
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 851390	A2	E	23	G06T-011/00	
Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 10198336	A		15	G09G-005/36	
US 5914723	A			G06F-015/00	
EP 851390	B1	E		G06T-011/00	
Designated States (Regional): DE FR GB NL SE					
DE 69719164	E			G06T-011/00	Based on patent EP 851390

... involves determining colour assigned to pixels in each gray-level in converted image and specifying representation of converted image using determined second gray - scale representation and determined colours

...Abstract (Basic): of pixels, each pixel has a colour associated with the pixel. The original image is converted into another image with fewer colours than the original image by. A first gray - scale representation of the pixels in the converted image is determined so that each pixel has a gray-value in the converted image. A second gray...

...the converted image. A colour assigned to the pixels in each gray-level in the converted image is determined and a representation of the converted image is specified using the determined second gray - scale representation and the determined colours. The converted image is displayed using the specified representation of the converted image...

28/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

009413333 \*\*Image available\*\*  
WPI Acc No: 1993-106844/199313

XRPX Acc No: N93-081152

Gray - scale **chart for** evaluation adjustment of colour image  
scanner - consists of parallel array of refractive-index step patterns  
**NoAbstract**

Patent Assignee: RICOH KK (RICO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 5048778	A	19930226	JP 91223476	A	19910808	199313 B

Priority Applications (No Type Date): JP 91223476 A 19910808

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 5048778	A	4	H04N-001/00	

Gray - scale **chart for** evaluation adjustment of colour image  
scanner...

?

35/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012933104 \*\*Image available\*\*  
WPI Acc No: 2000-104951/200009  
XRPX Acc No: N00-080603

**Image acquisition and integration apparatus for X-ray imaging, using multiple cameras, in medical diagnosis**

Patent Assignee: TELYMONDE T D (TELY-I)  
Inventor: TELYMONDE T D  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6002743	A	19991214	US 9621904	A	19960717	200009 B
			US 9752460	A	19970714	
			US 9840054	A	19980317	

Priority Applications (No Type Date): US 9840054 A 19980317; US 9621904 P 19960717; US 9752460 P 19970714

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6002743	A	12	H05G-001/64	Provisional application US 9621904 Provisional application US 9752460

**Image acquisition and integration apparatus for X-ray imaging, using multiple cameras, in medical diagnosis**

Abstract (Basic):

... The level of input of each camera (16) is matched using software, by image **integrator** and central processing unit (CPU). A calibrating unit aligns sub-pixel level of each camera and compensates for the differences in **gray scale** level of each camera. The CPU **distinguishes images** from viewing area of each camera and **integrates** the images into a continuous seamless form.

... a camera mounting panel (9) that provides direct communication of the cameras (16) with image **integrator**. The panel is arranged to provide one of the camera with adjacent camera along edges...

...area of one camera with the viewing area of adjacent camera. A phosphorescent screen (14) **converts** X-ray to light rays. The CPU includes a propagating and vectoring algorithm for providing...

...Title Terms: **INTEGRATE** ;

35/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010356113  
WPI Acc No: 1995-257427/199534

**Character processing method for display system - involves adding up of noise generated by noise generator with gray scale converted image data of data conversion unit**

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7160244	A	19950623	JP 93308256	A	19931208	199534 B

Priority Applications (No Type Date): JP 93308256 A 19931208

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 7160244 A 10 G09G-005/28

... involves adding up of noise generated by noise generator with gray scale converted image data of data conversion unit

...Abstract (Basic): generating image data of a character font as per the passed code. A multivalue data conversion unit (2) converts the image data based on a gray scale. A noise generator (6) produces a noise signal. An edge component detector (3) detects the edge component of the gray - scale converted image data...

...A noise component amplification unit (5) adjusts the coarse sound intensity of the generated noise signal based on the edge component. A

...

...addition unit (4) sums up the result of the amplification unit and image data of gray scale converted by the multi value data conversion unit...

...Title Terms: ADD ;

35/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

010222508 \*\*Image available\*\*

WPI Acc No: 1995-123763/199517

XRPX Acc No: N95-097902

Operating X-ray exposure appts. - calculating gray scale distribution in test image , generating main image and superimposing gray level distribution

Patent Assignee: SIEMENS AG (SIEI )

Inventor: AICHINGER H

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4330787	A1	19950323	DE 4330787	A	19930910	199517 B
JP 7153592	A	19950616	JP 94216340	A	19940909	199533
US 5485501	A	19960116	US 94288043	A	19940810	199609
DE 9321455	U1	19980409	DE 93U21455	U	19930910	199820
			DE 4330787	A	19930910	

Priority Applications (No Type Date): DE 4330787 A 19930910; DE 93U21455 U 19930910

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 4330787 A1 5 H05G-001/42

JP 7153592 A 3 H05G-001/36

US 5485501 A 5 H05G-001/64

DE 9321455 U1 8 H05G-001/42 application DE 4330787

... calculating gray scale distribution in test image , generating main image and superimposing gray level distribution

...Abstract (Basic): period (t3), the main image is read into a second image memory (7) and is added to the image from the first memory (6

...

...Abstract (Equivalent): time span, activating an x-ray source to emit a

first dose pulse by selective **adjustment** of an x-ray source voltage for dimensioning said first dose pulse so as to...

...calculating a **grayscale** value frequency of occurrence distribution of the image data in said first image memory; and...

...dependent on said distribution and storing said primary image in a second image memory, and **adding** said image in said first image memory to said image in said second image memory...

35/3,K/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010201563 \*\*Image available\*\*  
WPI Acc No: 1995-102817/199514  
XRPX Acc No: N96-048918

**Image quality enhancement method by adjusting contrast - subtracting gray - scale level of original image at first pixel from level at second pixel, multiplying difference DG by N, and determining gray - scale level of image with enhanced contrast at second pixel**

Patent Assignee: TOYOBO KK (TOYM ); TOYO BOSEKI KK (TOYM )

Inventor: KAWASHIMA S

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7028997	A	19950131	JP 93152072	A	19930623	199514 B
US 5481376	A	19960102	US 94264460	A	19940623	199607

Priority Applications (No Type Date): JP 93152072 A 19930623

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7028997	A		3	G06T-005/20	
US 5481376	A		10	H04N-001/40	

**Image quality enhancement method by adjusting contrast...**

...subtracting gray - scale level of original image at first pixel from level at second pixel, multiplying difference DG by N, and determining gray - scale level of image with enhanced contrast at second pixel

...Abstract (Basic): n times where (n greater than 1) and the difference image of each pixel is **determined**. An **addition** constant K1 is **calculated on integrating** the difference **images** in the direction of the shifted pixel. The addition value is set as K2 and the images are **integrated**.

...

..... Dwg. 2 / 3

...

.....a first electrical signal having image information in it, the image information including pixel and **gray - scale** level information...

...electrical signal is received from the electrical imaging device. A first pixel and a first **gray - scale** level are selected at the first pixel, and a second pixel and a second **gray - scale** level are selected at the second pixel from the image information. The **gray - scale** level of the image at the first pixel is subtracted from that at the second...



...A **gray - scale** level of an image with enhanced contrast at the second pixel is **determined** depending on the **gray - scale** level of the **image** with enhanced contrast at the first pixel and the value deltaGN. The determination comprises determining a sum of the **gray - scale** level of the image with enhanced contrast at the first pixel and the value deltaGN as the **gray - scale** level of the image with enhanced contrast at the second pixel, when the sum is...

...the value K1 being larger than the value K2. The first preset value K1 is **determined** as the **gray - scale** level of the **image** with enhanced contrast at the second pixel, when the sum is larger than the value K1. The second value K2 is **determined** as the **gray - scale** level of the **image** with enhanced contrast at the second pixel, when the sum is smaller than the value

...Title Terms: **ADJUST** ;

35/3,K/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

009925712 \*\*Image available\*\*  
WPI Acc No: 1994-193423/199424  
XRPX Acc No: N94-152259

**Arithmetic processing e.g. addition, subtraction for image processing - performing arithmetic operation in parallel on composite operand contg. multi-bit data items to produce multi-bit result for each item, and obtaining flag bit by comparison of each component with value or range**

Patent Assignee: XEROX CORP (XERO )

Inventor: DAVIES D

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 602887	A1	19940622	EP 93309862	A	19931208	199424 B
US 5375080	A	19941220	US 92993213	A	19921218	199505
EP 602887	B1	20000315	EP 93309862	A	19931208	200018
DE 69328071	E	20000420	DE 628071	A	19931208	200026
			EP 93309862	A	19931208	

Priority Applications (No Type Date): US 92993213 A 19921218

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 602887	A1	E	16	G06F-007/48	
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Designated States (Regional): DE FR GB

EP 602887	B1	E		G06F-007/48	
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Designated States (Regional): DE FR GB

DE 69328071	E			G06F-007/48	Based on patent EP 602887
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US 5375080	A		17	G06F-007/00	
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...Abstract (Basic): USE/ADVANTAGE - E.g. for document services - facsimile photocopier, printer, scanner of **grey scale** or colour images, searching image database, scanning envelopes for addresses, interpreting forms for high speed scanner, machine vision and process-specific print **image** correction and verification, pixel counting, **grey - scale** morphology, **grey - scale** rotation, generating error-diffused **images** and skew **detection** , finite difference analysis or simulation of physical phenomena. Technique permits efficient binary outcome operations in...

...Abstract (Equivalent): The arithmetic operation can **add** a value,

producing a carry signal if a component and the **added** value together exceed a maximum possible value. **Alternatively**, the arithmetic operation can subtract a value, producing a borrow signal if a component is...

...Title Terms: **ADD** ;  
?

File 348:EUROPEAN PATENTS 1978-2004/Mar W03

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040325,UT=20040318

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	576862	IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2	10825	GREYSCALE OR GRAYSCALE OR (GREY OR GRAY) ()SCALE?
S3	84113	COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4	548	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D- ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) (3N)S1(3N)S2
S5	1465	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ- UST?) (3N)S2
S6	3504	WATERMARK? OR WATER()MARK?
S7	10273	(DIGIT? OR ELECTRONIC?) (3N) (MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8	277	STEGANOGRAPH?
S9	1685	(EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA- L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN- G) (5N) (S5 OR S6 OR S7)
S10	784	AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI - J?)
S11	64372	IC=(H04N? OR G06T?)
S12	19	S4(10N)S3
S13	0	S12(S)S9
S14	0	S12(S)S6
S15	6	S12 AND S11
S16	17	COLORI?(3N)S2(3N)S1
S17	0	S16(S)S9
S18	0	S16(S)S6:S8
S19	3	S16 AND AD=19991118:20001231/PR
S20	7	S16 AND AD=20010101:20040331/PR
S21	9	S19 OR S20
S22	8	S16 NOT S21
S23	8	IDPAT (sorted in duplicate/non-duplicate order)
S24	8	IDPAT (primary/non-duplicate records only)
S25	8	S24 NOT S15
S26	1	S10 AND S5
S27	123	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ- UST?) (3N)S2(5N)S3
S28	0	S27(10N)S9
S29	1	S27(S)S6
S30	1	S29 NOT (S26 OR S24 OR S15)

15/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01065342

Method and device for recording and analysing images of an object

Verfahren und Anordnung zur Aufnahme und Auswertung von Bildern eines Gegenstandes

Procede et arrangement pour l'enregistrement et l'exploitation d'images d'un objet

PATENT ASSIGNEE:

OSTERREICHISCHES FORSCHUNGSZENTRUM SEIBERSDORF GES.M.B.H., (219563), ,  
2444 Seibersdorf, (AT), (Proprietor designated states: all)

INVENTOR:

Mayer, Konrad Dipl.Ing., Anton Baumgartner Strasse 44/C4/03/02, 1230 Wien  
, (AT)

Krattenthaler, Werner Dr., Erlaufstrasse 36/4, 2346 Maria  
Enzersdorf-Sudstadt, (AT)

Rubik, Michael Dipl.Ing., Hermesstrasse 83, 1130 Wien, (AT)

LEGAL REPRESENTATIVE:

Wildhack, Helmut, Dr. Dipl.-Ing. (43827), Patentanwalte Wildhack -  
Jellinek Landstrasser Hauptstrasse 50, 1030 Wien, (AT)

PATENT (CC, No, Kind, Date): EP 938231 A2 990825 (Basic)

EP 938231 A3 020612

EP 938231 B1 031217

APPLICATION (CC, No, Date): EP 99890036 990202;

PRIORITY (CC, No, Date): AT 98218 980206

DESIGNATED STATES: BE; CH; DE; ES; FR; GB; IE; IT; LI; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-005/335

ABSTRACT WORD COUNT: 147

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): German; German; German

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(German)	199934	1575
CLAIMS B	(English)	200351	1942
CLAIMS B	(German)	200351	1556
CLAIMS B	(French)	200351	2012
SPEC A	(German)	199934	2750
SPEC B	(German)	200351	2751

Total word count - document A 4326

Total word count - document B 8261

Total word count - documents A + B 12587

INTERNATIONAL PATENT CLASS: H04N-005/335

...CLAIMS signals of an image recorded at high resolution, in particular an image covering the entire colour spectrum or a black-and-white image or a grey - scale image , are supplied to the evaluation unit (5) in order to produce an intensity image,  
- the image signals of at least...

15/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00724899

**Video processing system**  
**Videoverarbeitungssystem**  
**Systeme de traitement video**

**PATENT ASSIGNEE:**

SYMAH VISION, (1433361), 83, avenue Marceau, F-75116 Paris, (FR),  
(Proprietor designated states: all)

**INVENTOR:**

Medioni, Gerard, 1833 Hillsboro Avenue, Los Angeles, CA 90035, (US)  
Gideon, Guy, 6263 Lemona Avenue, Van Nuys, CA 91411, (US)  
Rom, Hillel, 5755 Saloma Avenue, Van Nuys, CA 91411, (US)

**LEGAL REPRESENTATIVE:**

Fort, Jacques et al (15662), CABINET PLASSERAUD 84, rue d'Amsterdam,  
75440 Paris Cedex 09, (FR)

**PATENT (CC, No, Kind, Date):** EP 684732 A2 951129 (Basic)  
EP 684732 A3 961106  
EP 684732 B1 990825

**APPLICATION (CC, No, Date):** EP 95401234 950529;

**PRIORITY (CC, No, Date):** US 249348 940527

**DESIGNATED STATES:** BE; DE; DK; ES; FR; GB; IT; NL; SE

**INTERNATIONAL PATENT CLASS:** H04N-005/272

**ABSTRACT WORD COUNT:** 243

**NOTE:**

Figure number on first page: NONE

**LANGUAGE (Publication,Procedural,Application):** English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9934	1157
CLAIMS B	(German)	9934	1234
CLAIMS B	(French)	9934	1351
SPEC B	(English)	9934	7478
Total word count - document A			0
Total word count - document B			11220
Total word count - documents A + B			11220

**INTERNATIONAL PATENT CLASS:** H04N-005/272

...SPECIFICATION found and temporarily mask part of all of the target.

This general scheme of obstacle **detection** may be implemented both in  
**gray scale** (intensity) **image** space and in **RGB** color **image** space.

**REPLACER MODULE**

The replacer module takes a target image with corner locations and an  
...

**15/3,K/3 (Item 1 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00870079 \*\*Image available\*\*

**IMAGE PROCESSING**

**TRAITEMENT D'IMAGES**

**Patent Applicant/Assignee:**

CONSIGNIA PLC, 148 Old Street, London EC1V 9HQ, GB, GB (Residence), GB  
(Nationality), (For all designated states except: US)

**Patent Applicant/Inventor:**

TAN Robert Wei Liang, 37 Orchard Road, Melbourn, Royston, Herts SG8 6HH,  
GB, GB (Residence), GB (Nationality), (Designated only for: US)  
SWANN Robert Edward Meredith, 13 Honey Hill Mews, Pound Hill, Cambridge

CB3 OAL, GB, GB (Residence), GB (Nationality), (Designated only for: US)

Legal Representative:

ROBSON Aidan John (agent), Reddie & Grose, 16 Theobalds Road, London WC1X 8PL, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200203330 A2-A3 20020110 (WO 0203330)

Application: WO 2001GB2946 20010629 (PCT/WO GB0102946)

Priority Application: GB 200016222 20000630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD

SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 2839

Main International Patent Class: G06T-005/00

Fulltext Availability:

Detailed Description

Detailed Description

... document

images, the binary image of the text objects may be segmented according to background colour, calculated from the original greyscale image of the document.

Unfortunately segmentation of an image can be difficult and many techniques do...

15/3,K/4 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00846425 \*\*Image available\*\*

METHOD OF PRODUCING ELECTRONIC POSTCARDS

PROCEDE PERMETTANT DE PRODUIRE DES CARTES POSTALES ELECTRONIQUES

Patent Applicant/Assignee:

DIPCARD COM APS, 31 F, Nyhavn, DK-1051 Copenhagen K, DK, DK (Residence),

DK (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

STEGMANN Mikkel Bille, 102, 2. tv. Hulgardsvej, DK-2400 Copenhagen NV,

DK, DK (Residence), DK (Nationality), (Designated only for: US)

BLAUENFELDT Anders, 8, 5. th. Gunloegsgade, DK-2300 Copenhagen S, DK, DK

(Residence), DK (Nationality), (Designated only for: US)

Legal Representative:

CHAS HUDE A S (agent), 33, H.C. Andersens Boulevard, DK-1780 Copenhagen V, DK,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200180150 A1 20011025 (WO 0180150)

Application: WO 2001DK249 20010410 (PCT/WO DK0100249)

Priority Application: DK 2000635 20000414

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE

SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 3852

International Patent Class: H04N-001/00  
Fulltext Availability:  
Detailed Description

Detailed Description

... of triangles into which the quadrangle is divided, the better the resulting transformation. However, the **calculation** time increases correspondingly. The **grey scale image** is advantageously used for **calculating** the transformation parameters used on the original **colour** image.

According to the invention the transformation of the colour image of the white surface...

15/3,K/5 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00805849 \*\*Image available\*\*

**MULTI-FUNCTION MONITORING MODULE FOR A PRINTER**  
**MODULE DE SURVEILLANCE MULTIFONCTIONS DESTINE A UNE IMPRIMANTE**

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA  
Eindhoven, NL, NL (Residence), NL (Nationality)

Inventor(s):

BRONSWIJK Tako K A M, Prof. Holstlaan 6, NL-5581 AW Eindhoven, NL,  
LINDENHOVIUS Karianne H, Prof. Holstlaan 6, NL-5581 AW Eindhoven, NL,  
TIMMERS Wilhelmus A G, Prof. Holstlaan 6, NL-5581 AW Eindhoven, NL,

Legal Representative:

COBBEN Louis M H (agent), Internationaal Octrooibureau B.V., Prof.  
Holstlaan 6, NL-5581 AW Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200139486 A1 20010531 (WO 0139486)

Application: WO 2000EP10759 20001101 (PCT/WO EP0010759)

Priority Application: EP 99203874 19991119

Designated States: CN JP KR

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 12087

Main International Patent Class: H04N-001/00

English Abstract

...such a way that both the illuminated area and a small portion thereof can be **imaged**. This allows **detection** of both the **gray scale** of a print line (35) and the size and **colour** of an individual dot. A dot printer provided with this modules gives an improved print...

15/3,K/6 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
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00552891     \*\*Image available\*\*

**LINE OBJECT VECTORIZATION IN COLOUR/GRAYSCALE IMAGES**

**VECTORISATION D'OBJETS LINEAIRES DANS DES IMAGES EN COULEUR/EN NIVEAUX DE GRIS**

Patent Applicant/Assignee:

KENT RIDGE DIGITAL LABS,  
WU Jian Kang,  
ZHANG Weiming,  
LI Yiqun,  
DONG Ziqiang,

Inventor(s):

WU Jian Kang,  
ZHANG Weiming,  
LI Yiqun,  
DONG Ziqiang,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200016264 A1 20000323 (WO 0016264)

Application: WO 98SG72 19980916 (PCT/WO SG9800072)

Priority Application: WO 98SG72 19980916

Designated States: SG US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE

Publication Language: English

Fulltext Word Count: 7235

Main International Patent Class: G06T-005/00

Fulltext Availability:

Detailed Description

Detailed Description

... line objects in  
colour and/or grayscale images. The invention is  
particularly suitable for the **detection** of line **images** in  
**colour / grayscale** maps, aerial **photographs** , satellite **images** ,  
and line drawings such as engineering and architectural  
drawings.

**BACKGROUND OF THE INVENTION**

Image data...seen

further below, the line tracing may be performed on an  
interactive basis.

20 When **analysing** a line in a **colour / grayscale image** , the human  
eye considers a number of features of the line. These  
include the colour...

?



25/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00920731

**A method for measuring volumetric fluid flow and its velocity profile in a lumen or other body cavity**

**Verfahren zum Messen des Volumenflusses und des Geschwindigkeitsprofils in einen Lumen oder einer Körperhöhle**

**Procede pour mesurer le debit volumetrique et son profil de vitesse dans un lumen ou dans une cavite d'un corps**

PATENT ASSIGNEE:

EndoSonics Corporation, (1257451), 2870 Kilgore Road, Rancho Cordova, California 95670, (US), (applicant designated states: NL)

LEGAL REPRESENTATIVE:

Smulders, Theodorus A.H.J., Ir. et al (21191), Vereenigde Octrooibureaux Nieuwe Parklaan 97, 2587 BN 's-Gravenhage, (NL)

PATENT (CC, No, Kind, Date): EP 839497 A1 980506 (Basic)

APPLICATION (CC, No, Date): EP 96203050 961101;

PRIORITY (CC, No, Date): EP 96203050 961101

DESIGNATED STATES: NL

INTERNATIONAL PATENT CLASS: A61B-008/06

ABSTRACT WORD COUNT: 110

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9819	388
SPEC A	(English)	9819	3616
Total word count - document A			4004
Total word count - document B			0
Total word count - documents A + B			4004

...SPECIFICATION transducer or by electronically generating of the beam using an array of transducers elements.

Velocity **images** can be superimposed on the **gray - scale image** of static tissues by **coloring image** pixels according to the magnitude of flow. For example, from an experiment conducted in a...

25/3,K/2 (Item 2 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00601768

**X-ray image generating apparatus and method of creating a radiographic image of a subject**

**Vorrichtung zur Erzeugung von Rontgenbildern und Verfahren zur radiographischen Abbildung eines Objekts**

**Appareil de generation d'image a rayons X et procede de creation d'une image radiographique d'un objet**

PATENT ASSIGNEE:

DIGIRAY CORPORATION, (1703380), 2239 Omega Road, San Ramon, California 94583, (US), (applicant designated states: DE;FR;GB;IT;NL)

Albert, Richard David, (200270), 317 Hartford Road, Danville, CA 94526, (US), (applicant designated states: DE;FR;GB;IT;NL)

INVENTOR:

Albert, Richard David, 317 Hartford Road, Danville, California 94526, (US)

Reyna, David L., 2239 Omega Road, San Ramon, California 94538, (US)

LEGAL REPRESENTATIVE:

McNeight, David Leslie et al (33713), McNeight & Lawrence Regent House  
Heaton Lane, Stockport Cheshire SK4 1BS, (GB)  
PATENT (CC, No, Kind, Date): EP 593253 A1 940420 (Basic)  
EP 593253 B1 971217  
APPLICATION (CC, No, Date): EP 93308105 931012;  
PRIORITY (CC, No, Date): US 959605 921013  
DESIGNATED STATES: DE; FR; GB; IT; NL  
INTERNATIONAL PATENT CLASS: H05G-001/60; H04N-005/32; G01N-023/04;  
ABSTRACT WORD COUNT: 211

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9712W2	1661
CLAIMS B	(German)	9712W2	1429
CLAIMS B	(French)	9712W2	2013
SPEC B	(English)	9712W2	16997
Total word count - document A			0
Total word count - document B			22100
Total word count - documents A + B			22100

...SPECIFICATION program of this embodiment of the invention also enables operator initiation of standard forms of **image** processing including **colorizing** of the **image** based on different **gray scale** levels in the image, edge enhancement, field flattening, stretching or compression of the image, image...

25/3,K/3 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00565099 \*\*Image available\*\*

**METHODS AND SOFTWARE FOR COLOR ENCODING AND DECODING GRAYSCALE IMAGES WITHOUT PIXEL SATURATION**

**TECHNIQUES ET LOGICIELS POUR LE CODAGE ET LE DECODAGE COULEUR D'IMAGES EN NIVEAUX DE GRIS, SANS SATURATION DES PIXELS**

Patent Applicant/Assignee:

HIGMAN Ryan D,  
HIVOLTZE-JIMENEZ Alexander,

Inventor(s):

HIGMAN Ryan D,  
HIVOLTZE-JIMENEZ Alexander,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200028472 A1 20000518 (WO 0028472)

Application: WO 99US26218 19991105 (PCT/WO US9926218)

Priority Application: US 98107523 19981107

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK

DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

TM TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ

BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT

SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 7711

Fulltext Availability:

Detailed Description

Detailed Description

... and tissues of lesser density in shades of blue and green. However, the prior art **colorization** process takes a **grayscale** digital density **image** of 256 levels of intensity of the density and translates it to a maximum of...

...precision as well. The prior art colorization process also requires storage of the both the **colorized** digital limage and the **grayscale** digital **image** if precise calculations are to be done, which detrimentally increases the required space to store...

...the original black and white image by replacing the assigned color values with the original **grayscale** values, thereby de- **colorizing** the **image** and restoring its original **grayscale** tones.

#### BRIEF DESCRIPTION OF THE DRAWINGS AND APPENDIX

Figure 1 is a flow diagram showing...

25/3,K/4 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00465365 \*\*Image available\*\*

#### DOPPLER FLOW IMAGING USING OPTICAL COHERENCE TOMOGRAPHY

#### IMAGERIE DOPPLER D'ECOLEMENT PAR REPRESENTATION TOMOGRAPHIQUE DE COHERENCE OPTIQUE

##### Patent Applicant/Assignee:

IZATT Joseph A,  
KULKARNI Manish D,  
YAZDANFAR Siavash,  
ROLLINS Andrew,  
SIVAK Michael V,

##### Inventor(s):

IZATT Joseph A,  
KULKARNI Manish D,  
YAZDANFAR Siavash,  
ROLLINS Andrew,  
SIVAK Michael V,

##### Patent and Priority Information (Country, Number, Date):

Patent: WO 9855830 A1 19981210  
Application: WO 98US11116 19980602 (PCT/WO US9811116)  
Priority Application: US 9747358 19970602

##### Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD  
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ  
VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH  
CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML  
MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 14241

##### Fulltext Availability:

Detailed Description

##### Detailed Description

... whose radius is smallest at the vessel's center.

Prior to merging the two-dimensional **colorized** Doppler **image** with the **gray - scale image** the user may be prompted to select both positive and negative,

minimum threshold and maximum...72 and the multiple magnitude arrays 76 are used to respectively create a two-dimensional, **colorized** velocity **image** 82 and a two-dimensional, **gray - scale** image 58 pertaining to backscatter positions within the sample. The two dimensional velocity image may...

25/3,K/5 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00455675 \*\*Image available\*\*

**ULTRASOUND IMAGING ENHANCEMENT METHODS AND SYSTEMS**  
**PROCEDE ET SYSTEME D'AMELIORATION DE L'IMAGERIE PAR ULTRASONS**

Patent Applicant/Assignee:

ACUSON CORPORATION,

Inventor(s):

GURACAR Ismayil,

HOLLEY Gregory,

JI Ting-Lan,

RAMAMURTHY Bhaskar,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9846139 A1 19981022

Application: WO 98US7196 19980408 (PCT/WO US9807196)

Priority Application: US 97838920 19970411

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ

VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH

CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML

MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 8940

Fulltext Availability:

Detailed Description

Detailed Description

... contrast agent.

Brock-Fisher et al., U.S. Patent No. 5,577,505, combine a **colorized** non-linear **image** with a **gray - scale image**. The non-linear image is obtained via a subtraction approach, requiring insonifying the tissue at ...

25/3,K/6 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00429139 \*\*Image available\*\*

**MEASUREMENT OF VOLUMETRIC FLUID FLOW AND ITS VELOCITY PROFILE**

**MESURE DE L'ECOULEMENT VOLUMETRIQUE D'UN LIQUIDE ET SON PROFIL DE VITESSE**

Patent Applicant/Assignee:

ENDOSONICS CORPORATION,

CESPEDES Edoardo Ignacio,

LANCEE Charles Theodoor,

VAN DER STEEN Antonius Franciscus Wilhelmus,

LI Wenguang,

BOM Nicolaas,

Inventor(s):

CESPEDES Edoardo Ignacio,  
LANCEE Charles Theodoor,  
VAN DER STEEN Antonius Franciscus Wilhelmus,  
LI Wenguang,  
BOM Nicolaas,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9819603 A1 19980514  
Application: WO 97NL504 19970902 (PCT/WO NL9700504)  
Priority Application: AT 896203050 19961101

Designated States: CA JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE

Publication Language: English

Fulltext Word Count: 5629

Fulltext Availability:

Detailed Description

Detailed Description

... or

c) by electronically generating of the beam using an  
array of transducers elements.

Velocity **images** can be superimposed on the **gray - scale**  
**image** of static tissues by **coloring image** .pixels according  
to the magnitude of flow. For example, from an experiment  
conducted in a...

25/3,K/7 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00351142 \*\*Image available\*\*

**A METHOD FOR PROCESSING REAL-TIME CONTRAST ENHANCED ULTRASONIC IMAGES**  
**PROCEDE DE TRAITEMENT D'IMAGES ULTRASONIQUES EN TEMPS REEL ET A CONTRASTE**  
**AMELIORE**

Patent Applicant/Assignee:

MOLECULAR BIOSYSTEMS INC,

Inventor(s):

LEVENE Harold,  
WEBSTER Bob,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9633655 A1 19961031  
Application: WO 96US5834 19960425 (PCT/WO US9605834)  
Priority Application: US 95428723 19950425

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB  
GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL  
PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AM AZ  
BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 7092

Fulltext Availability:

Detailed Description

English Abstract

The present invention is a novel method for producing real-time  
**colorized** , contrast enhanced **images** from a sequence of **grey - scale**  
video images obtained during diagnostic ultrasound. The particular  
colorizing scheme varies according to which information...

Detailed Description

... SUMMARY OF THE INVENTION

The present invention is a novel method for producing real-time **colorized** , contrast enhanced **images** from a sequence of **grey - scale** video **images** . The particular **colorizing** scheme varies according to which information parameter is desired to be displayed in real-time...

25/3,K/8 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00257931 \*\*Image available\*\*

**GLYPH RASTERIZATION METHOD COMBINING ANTI-ALIASING AND GRID FITTING**

**PROCEDE DE CONVERSION DE GLYPHES SOUS FORME D'IMAGES VECTORIELLES EN IMAGES**

**EN MODE POINT COMBINANT ANTICRENELAGE ET AJUSTEMENT DE GRILLE**

Patent Applicant/Assignee:

GO CORPORATION,

Inventor(s):

HUNGSHUN Edward Yee,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9406094 A1 19940317

Application: WO 93US7956 19930824 (PCT/WO US9307956)

Priority Application: US 92937962 19920828

Designated States: AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ

LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA VN AT BE CH DE DK ES FR

GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 5963

Fulltext Availability:

Detailed Description

Detailed Description

... in step 405,

the sampled points are processed zone by zone to determine the fractional **coloring** for each pixel and produce a **gray - scaled image** . The process is then complete and ends in step 406.

The present invention uses this...

?

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00970986

COLOR CHARACTERISTIC MEASURING APPARATUS AND METHOD, AND STORAGE MEDIUM OF  
IMAGE PICKUP DATA

VORRICHTUNG UND VERFAHREN ZUR MESSUNG DER FARBKARAKTERISTIK UND  
SPEICHERMEDIUM FÜR BILDDATEN

## APPAREIL ET PROCEDE DE MESURE DES CARACTERISTIQUES COLORIMETRIQUES

PATENT ASSIGNEE:

MITSUBISHI DENKI KABUSHIKI KAISHA, (208580), 2-3, Marunouchi 2-chome  
Chiyoda-ku, Tokyo 100, (JP), (Applicant designated States: all)

INVENTOR:

SUGIURA, Hiroaki, Mitsubishi Denki Kabushiki Kaisha, 2-3, Marunouchi  
2-chome, Chiyoda-ku Tokyo, (JP)

KUNO, T., Mitsubishi D. Kabushiki Kaisha, 2-3, Marunouchi  
2-chome, Chiyoda-ku Tokyo, (JP)

HAYASHI, J. Mitsubishi E. M.c. Kiki Softw , 5-1, Inadera 2-chome,  
Amagasaki-shi, Hyogo 661, (JP)

YAMAMOTO, K. Mitsubishi E. M.c.Kiki Softw, 5-1, Inaudera  
2-chome, Amagasaki-shi, Hyougo 661, (JP)

NISHIMURA, Y. Mitsubishi E. M. Kiki softw, 5-1, Inadera 2-chome,  
Amagasaki-shi, Hyogo 661, (JP

LEGAL REPRESENTATIVE:

Burke, Steven David et al (47743), R.G.C. Jenkins & Co. 26 Caxton Street,  
London SW1H 0RH, (GB)

PATENT (CC, No, Kind, Date): EP 957643 A1 991117 (Basic)  
WO 9828919 980702

APPLICATION (CC, No, Date): EP 97949129 971218; WO 97JP4669 971218

PRIORITY (CC, No, Date): JP 96343498 961224

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: H04N-017/02; H04N-009/04; H04N-009/67

ABSTRACT WORD COUNT: 111

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	9946	2379
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SPEC A	(English)	9946	12891
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Total word count - document A 15270

Total word count - document B 0

Total word count - documents A + B 15270

INVENTOR:

... JP)

HAYASHI, J. Mitsubishi E. M.c. Kiki Softw ...

...SPECIFICATION FIG. 49 is a format drawing of the test chart 1 containing white, black, a **gray scale 200** **changing** gradually from white to black, and several color charts 210 of red, green, blue, etc...

...the image pickup machine 6 can be found from the measurement values provided when the **gray scale 200 changing** gradually from white to black is imaged by the image pickup machine 6.

However, the...14 become the same in every image. However, if the image data values of the **gray scales 14 change** for some factor, the image data values of the light output section 4, namely, the...in every image. However, if the image data values of the color charts of the **gray scales 14 change** for some factor, the image data values of the color

charts 2C for measuring the...every image. However, if the image data values of the color charts 14C of the **gray scales** 14 **change** for some factor, the image data values of the light output section 4 for measuring...

?



30/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01423999

**Method for generating and detecting marks**

**Verfahren zum Erzeugen und Auffinden von Wasserzeichen**

**Méthode pour generer et detecter des filigranes**

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,  
Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Fletcher, Peter Alleine, 56 Lilyfield Road, Rozelle, New South Wales 2039  
, (AU)

Larkin, Kieran Gerard, 22 Mitchell Street, Putney, New South Wales 2112,  
(AU)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28276), Beresford & Co., 2-5 Warwick  
Court, High Holborn, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 1202552 A2 020502 (Basic)

APPLICATION (CC, No, Date): EP 2001309049 011025;

PRIORITY (CC, No, Date): AU 00PR1050 001027

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/32

ABSTRACT WORD COUNT: 139

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200218	6435
SPEC A	(English)	200218	8778
Total word count - document A			15213
Total word count - document B			0
Total word count - documents A + B			15213

...SPECIFICATION the properties of LRHFs. Fig. 4 shows a schematic diagram of a process 450 of **watermarking** an image 400 or document with a pattern 410, such as the real part of a LRHF gmk)) shown in Fig. 3A. The pattern 410, which may be called a **watermark**, is simply added to the image 400 to form a **watermarked** image 420. If the image 400 is in colour, then the pattern 410 is added to the luminance part of a colour image 400. This allows the **watermark** to survive when the **watermarked** image is **converted** from **colour** to a **greyscale** representation.

Preferably, the pattern 410 component in the watermarked image 420 is invisible or imperceptible...

?

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**1 Enforcement of copyright laws for multimedia through blind, detectable, reversible watermarking***Bartolini, F.; Bini, G.; Cappellini, V.; Fringuelli, A.; Meucci, G.; Piva, A.; Barni, M.;*

Multimedia Computing and Systems, 1999. IEEE International Conference on , Volume: 2 , 7-11 1999

Pages:199 - 203 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(436 KB\)\]](#) IEEE CNF**2 Exploiting the cross-correlation of RGB-channels for robust watermarking of color image***Piva, A.; Bartolinin, F.; Cappellini, V.; Barni, M.;*

Image Processing, 1999. ICIP 99. Proceedings. 1999 International Conference on , Volume: 1 , 1 Pages:306 - 310 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(404 KB\)\]](#) IEEE CNF**3 Mask building for perceptually hiding frequency embedded watermarks***Bartolini, F.; Barni, M.; Cappellini, V.; Piva, A.;*

Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference on , Volume: 1 , 4 1998

Pages:450 - 454 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(720 KB\)\]](#) IEEE CNF**4 DCT-based watermark recovering without resorting to the uncorrupted original image***Piva, A.; Barni, M.; Bartolini, F.; Cappellini, V.;*

Image Processing, 1997. Proceedings., International Conference on , Volume: 1 , 26-29 Oct. 1997 Pages:520 - 523 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(592 KB\)\]](#) IEEE CNF**5 Robust watermarking of still images for copyright protection***Barni, M.; Bartolini, F.; Cappellini, V.; Piva, A.;*

Digital Signal Processing Proceedings, 1997. DSP 97., 1997 13th International Conference on , Volume: 2 , 2-4 July 1997

Pages:499 - 502 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(612 KB\)\]](#) IEEE CNF

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S14	0	S12(S)S6
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S17	31	RD S16 (unique items)
S18	0	S10 AND S1(S)S2(S)S3
S19	0	S10 AND S2
S20	2	S6(3N)S3(3N)S1
S21	2	RD S20 (unique items)
S22	0	S11(S)S9

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01781428 04-32419

**Corel Photo-Paint 8**

Biedny, David

Macworld v16n3 PP: 36 Mar 1999

ISSN: 0741-8647 JRNL CODE: MAW

WORD COUNT: 809

...TEXT: History brush, which can restore the image to any state in the History palette.

However, **Photo -Paint's** biggest failings are in performance and reliability. Painting in the program is sluggish...

...five seconds to open in Photoshop 5.0 took a whopping minute to open in **Photo -Paint** (thankfully, file saves were more on par with those in Photoshop). Slow performance also marred **RGB -to- gray - scale** mode **conversion**, as well as **Photo -Paint's** unique ability to preview a file, make a selection, and open only that portion of the **image**.

On a more disturbing note, PhotoPaint crashed frequently on a Macintosh with plenty of RAM...

17/3,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01656008 03-06998

**Photoshop pumps up**

McClelland, Deke

Macworld v15n7 PP: 64-71 Jul 1998

ISSN: 0741-8647 JRNL CODE: MAW

WORD COUNT: 3359

...TEXT: my images and fix them.

Adobe's intentions are commendable. The program is trying to **convert RGB** and **gray - scale images** created on a foreign system so that they display accurately on yours. But the conversion works only if your monitor is properly calibrated, the **image** contains a profile for the source monitor, and the source monitor itself was properly calibrated...

17/3,K/3 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01568060 02-19049

**Computer-assisted environmental design system: Regional information visualizer**

Yoshikawa, Shin

International Planning Studies v2n2 PP: 211-228 Jun 1997

ISSN: 1356-3475 JRNL CODE: IPS

WORD COUNT: 3953

...TEXT: is scanned, and is imported as a PICT file by PhotoShop.

When we compose several **photographs** , we have two major problems: colour differences depending on the different conditions while taking the **photographs** , developing and printing, and scale differences depending on different altitudes of the shooting areas. These must be adjusted. After setting one of 18 **photographs** as a standard, the colour differences are adjusted to it by the **gray scale** and **colour -tone adjustment** function of PhotoShop. The scale differences are adjusted by the transformation function of PhotoShop, too. Then the 18 **photographs** are composed into one **image** . This **image** is exported to the renderers in PICT format after adjustments to the size and resolution (Figure 11). The renderers are rendering the terrain model with the aerial **photographic image** . The light source is placed in the same direction as the sun at the time when the **photographs** were taken. Because the terrain model is three-dimensional, we can look at it from every viewpoint. Figures 19 and 20 are **photographic mapping images** viewed from a low angle. They are three times the actual heights. Conclusion

(Illustration Omitted...

17/3,K/4 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00633409 92-48349

**Art Beat**

Abes, Cathy  
Macworld v9n10 PP: 51-54 Oct 1992  
ISSN: 0741-8647 JRNLCODE: MAW  
WORD COUNT: 1342

...TEXT: a third-party filter that's not part of Photoshop) to simulate electronic static.

To **convert gray - scale** file to **RGB** color, he used Adjust Hue/Saturation ( **Image** menu). Then he copied the colorized textures and chose Load Selection (under Select menu) to...

... photos originated as gray-scale scans that he assembled in a Photoshop file. Then he **converted** the **gray - scale** file to **RGB** , using Hue/Saturation to give it a sepia tone. Fishauf used the Blend tool to produce the top-to-bottom color transition between the three **photos** . In the Blend Tool Options dialog box, he set Mode to Color Only and Color...

17/3,K/5 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

05401561 SUPPLIER NUMBER: 55166483 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**ArcSoft PhotoStudio 2.0 and PhotoFantasy.(digital photography software programs)**

Drafahl, Jack; Drafahl, Sue  
Petersen's Photographic, 27, 4, 48(2)  
August, 1998

ISSN: 0199-4913 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1441 LINE COUNT: 00110

... output to larger or smaller file sizes.

The "convert" pull-down menu allows you to **change** your **image** to **grayscale** , **RGB** , **CYMK**, or to a 256-color palette. The **CYMK** menu even lets you create your own **CYMK** separation values. If you want to separate the **picture** into **images** representing each color, you can select the "separate to" and the program will create a black-and-white **image** for each color channel.

Most of the creative functions found in PhotoStudio are found under ...

17/3,K/6 (Item 2 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04450303 SUPPLIER NUMBER: 17891985 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Using channels as layers to apply subtle effects. (colorizing 19th-century monochrome photos without losing the old-fashioned look) (Product Support) (Brief Article)

Abes, Cathy  
Macworld, v13, n3, p154(2)  
March, 1996  
DOCUMENT TYPE: Brief Article ISSN: 0741-8647 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 619 LINE COUNT: 00050

... set to Mountainous produced an embossed effect on the selected areas.

1. Rice scanned the **photo** that became the centerpiece of his **image** in **Grayscale** mode, then **converted** it to **RGB** so he could work within channels. Although he now had red, green, and blue channels, each channel contained the same data because the **image** was still in gray scale.
2. Rice applied the Canvas filter from Adobe Gallery Effects...

17/3,K/7. (Item 3 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04334640 SUPPLIER NUMBER: 17403411 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Cool crossfades: make a smooth transition between any two images with a mask containing a gradation. (Graphics How-To) (Tutorial)

Ashford, Janet  
MacUser, v11, n11, p114(1)  
Nov, 1995  
DOCUMENT TYPE: Tutorial ISSN: 0884-0997 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 468 LINE COUNT: 00038

... reads 2.5 and the black output level is 60.

3. Converting to color. After **converting** the **image** from **grayscale** to **RGB** (Mode: **RGB** ), Odam selects the red channel (Command-2), uses the Select All command (Select: All), and fills it (Edit: Fill) with black. The resulting **image** contains only green and blue, making a bright-cyan wire frame.

4. Outlining the mask...

17/3,K/8 (Item 4 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04123527 SUPPLIER NUMBER: 15548871 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Graphically speaking. (1,001 Tips: Presentations, DTP & Drawing)**  
PC-Computing, v7, n8, p198(7)  
August, 1994  
ISSN: 0899-1847 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4953 LINE COUNT: 00387

... out your red-and-blue glasses and prepare to see 3-D. First, if your **image** is a **grayscale**, **convert** it to **RGB** color. Next, select **Image**, Effects, Prism. Shift the red channel to -3 and the green channel to 3; don't adjust the blue channel. Click on OK to apply the effect. Finally, give the **image** a gray

17/3,K/9 (Item 5 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

03964617 SUPPLIER NUMBER: 14475124 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The Gaussian glow. (using channel operations in the Photoshop image processing program to add a new glow to graphic images) (Photoshop Tips and Tricks)**  
Krause, Kai  
MacUser, v9, n12, p170(2)  
Dec, 1993  
ISSN: 0884-0997 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1179 LINE COUNT: 00083

...ABSTRACT: the first copy, the Gaussian Blur filter is applied. For the second, the image is **converted** from **RGB** to **gray scale** via the Grayscale mode. The mask is created by modifying the gray-scale copy via...  
... results (see Figure 2).

Let's move next to the second copy of our original **image**: We need to turn this one into a **gray - scale image**. **Convert** it from **RGB** to gray scale by selecting Grayscale from the Mode menu (when Photoshop asks if you...

17/3,K/10 (Item 6 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

03870747 SUPPLIER NUMBER: 13508488 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The image crusaders: 12 screen capture & conversion utilities. (Software Review) (overview of 10 evaluations of screen-capture programs) (includes related articles on suitability-to-task ratings, Editors' Choices, image compression, troubleshooting conversions) (Evaluation)**  
Grunin, Lori  
PC Magazine, v12, n7, p221(23)  
April 13, 1993  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 5051 LINE COUNT: 00390

... based on the same procedure, known as a Discrete Cosine Transform (DCT).

Before compressing an **image**, the software **converts** the **RGB** or **gray - scale** information into another color space known as YUV. In the YUV space, all the important resolution information of an **image** is in the Y



(luminance) channel, while the color information is translated into two other...

**17/3,K/11** (Item 1 from file: 141)  
DIALOG(R)File 141:Readers Guide  
(c) 2004 The HW Wilson Co. All rts. reserv.

03822134 H.W. WILSON RECORD NUMBER: BRGA98072134 (USE FORMAT 7 FOR FULLTEXT)

**ArcSoft PhotoStudio 2.0 and PhotoFantasy.**

Drafahl, Jack.; Drafahl, Sue.

Petersen's Photographic v. 27 no4 (Aug. 1998) p. 48-9

WORD COUNT: 1453

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... output to larger or smaller file sizes.

The "convert" pull-down menu allows you to **change** your **image** to **grayscale** , **RGB** , **CYMK**, or to a 256-color palette. The **CYMK** menu even lets you create your own **CYMK** separation values. If you want to separate the **picture** into **images** representing each color, you can select the "separate to" and the program will create a black-and-white **image** for each color channel.

Most of the creative functions found in PhotoStudio are found under...

**17/3,K/12** (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

11769966 SUPPLIER NUMBER: 57844548 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Looking good has never been so easy.**

Halinda, Steve

Computer Dealer News, 15, 44, 42

Nov 19, 1999

ISSN: 1184-2369 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 3042 LINE COUNT: 00227

... a mix of both warm and cold colours. The black and white image was a **greyscale conversion** one of the **colour images** , and contained a full range of 256 different levels of grey.

Each image was printed...

**17/3,K/13** (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

10536695 SUPPLIER NUMBER: 21201440 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Tapping solutions for color management. (Cover Story)**

Sharples, Hadley

Graphic Arts Monthly, v70, n9, p42(5)

Sept, 1998

DOCUMENT TYPE: Cover Story ISSN: 1047-9325 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3057 LINE COUNT: 00255

... selective color corrections, and color-separates images. The

software also processes black-and-white images, **converts** **RGB** to **gray** - scale, detects **image** characteristics, balances tone, and sets highlight and shadow.

Pantone has announced Pantone ColorReady, a software...

**17/3,K/14** (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

10233467 SUPPLIER NUMBER: 20746536 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Low-cost image editor shoots for novice users. (MicroFrontier's Digital Darkroom 1.2.) (Product Announcement)**  
Follmann, Christina  
MacWEEK, v12, n21, p11(1)  
June 1, 1998  
DOCUMENT TYPE: Product Announcement ISSN: 0892-8118 LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 334 LINE COUNT: 00030

... images and rotate images or selections with a single click; change resolutions; and scale and **convert** from **RGB** to **gray scale** and back.

The program will allow multiple levels of undo and support third-party, Adobe...

**17/3,K/15** (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

09040688 SUPPLIER NUMBER: 18783618 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Binuscan to rev ColorPro suite. (ColorPro 3.0 color-calibration and separation software) (Brief Article) (Product Announcement)**  
Rothenberg, Matthew  
MacWEEK, v10, n40, p16(2)  
Oct 21, 1996  
DOCUMENT TYPE: Brief Article Product Announcement ISSN: 0892-8118  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 335 LINE COUNT: 00029

... lets users set image-processing options directly within XPress. According to Binuscan, the software can **convert** **RGB** to **gray scale** in real time, process CMYK **images**, import **Photo** CD files, resample **images** to match RIP resolutions, and automate color correction and separation.

BinuCD exports Photo CD images...

**17/3,K/16** (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

06408853 SUPPLIER NUMBER: 13433944 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Photoshop plugs into Photo CDs. (Kodak Photo CD Acquire Module for Adobe Photoshop) (Brief Article) (Product Announcement)**  
Rothenberg, Matthew  
MacWEEK, v7, n7, p32(1)  
Feb 15, 1993  
DOCUMENT TYPE: Product Announcement ISSN: 0892-8118 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 215 LINE COUNT: 00017

... crop it; and manipulate its color balance, brightness and saturation. The software includes metrics for **gray - scale** and video- **RGB conversion** , as well as three monitor white points and three gamma settings.

The module ships with...

**17/3,K/17 (Item 6 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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05855031 SUPPLIER NUMBER: 12162011 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Lift and separate. (Ad-hoc Graphics' Finalia for Windows) (Software Review)**  
**(Evaluation)**

Bennett, John

PC User, n182, p63(1)

April 8, 1992

DOCUMENT TYPE: Evaluation ISSN: 0263-5720 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 814 LINE COUNT: 00064

... a colour scan in Finalia will give better results than a greyscale scan of the **image** .

A Mode palette allows you to switch from interactive Preview to individual separations, or combinations...

**17/3,K/18 (Item 7 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

05850340 SUPPLIER NUMBER: 12201195 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**OneScanner, Ofoto make conversion to color in the fall. (Apple developing color versions of OneScanner and Ofoto scanning software)**

Rothenberg, Matthew

MacWEEK, v6, n17, p1(2)

April 27, 1992

ISSN: 0892-8118 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 526 LINE COUNT: 00042

... conversion; conversion of RGB (red, green, blue) data to CMYK (cyan, magenta, yellow, black) TIFF **images** ; and automatic detection of color or black-and-white originals. Al>Background **image** processing.

>Other image controls, including image-enhancement technology that will sharpen scans to an effective...

**17/3,K/19 (Item 8 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

05108064 SUPPLIER NUMBER: 10426046 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Windows shopping. (mini-reviews of four applications for the Windows 3.0 graphical user interface) (Software Review) (evaluation)**

Moss, David

PC User, n151, p66(3)

Jan 30, 1991

DOCUMENT TYPE: evaluation ISSN: 0263-5720 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2618 LINE COUNT: 00216

... able to crop an image, or zoom m on it using up to 32x magnification, **colour images** can be **changed** to **greyscale**, and both **colour** and **greyscale images** can be **converted** to monochrome by using dithering or colour separation.

DoDOT will work with VGA, Super VGA...

17/3,K/20 (Item 9 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

03865817 SUPPLIER NUMBER: 07292957 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Discovery Software buys Studiotronics in a flash. (Studiotronics Inc.)**  
Whitmer, Clair  
MacWEEK, v3, n5, p49(1)  
Jan 31, 1989  
ISSN: 0892-8118 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 202 LINE COUNT: 00016

... first set of retail products, including ColorSet, a system that uses software and physical RGB ( **red** , **green** , **blue** ) filters to **convert images** scanned on **gray - scale** scanners into color **images** .

Within three days, the two companies had signed preliminary papers for Discovery to purchase 65...

17/3,K/21 (Item 10 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

03322372 SUPPLIER NUMBER: 05219085 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Picking the right printer interface.**  
Williams, Randy; Busse, William  
Machine Design, v59, p93(4)  
Sept 24, 1987  
ISSN: 0024-9114 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2066 LINE COUNT: 00166

... a fiber-optic cathode-ray tube to produce continuous-tone images on light-sensitive paper. **Red - green - blue** analog signals are **converted** to monochrome **gray scale** .

Photo: Shinko Data Format

Photo: Seiko Data Format

When a digital interface is used, a...

17/3,K/22 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01928030 SUPPLIER NUMBER: 18175366 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PageMaker gives more to prepress. (Adobe Systems' PageMaker 6.0 for Windows desktop publishing software) (includes related articles about PageMaker 6.0 features, Kodak technology and HTML Author Plug-In) (Software Review) (Evaluation)**  
Jarrett, Dennis  
PC User, n274, p56(4)

Jan 10, 1996

DOCUMENT TYPE: Evaluation ISSN: 0263-5720 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3404 LINE COUNT: 00272

... digital form.

When you use Place to open a PCD file, you can crop the **image**, define its final size and resolution, choose a sharpening level, and opt for automatic **colour** balancing and **greyscale conversion** as part of the process.

It's a shame this cleverness doesn't extend to...

**17/3,K/23 (Item 2 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01825816 SUPPLIER NUMBER: 17213883 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Color systems and software. (Drupa, part III: color - management, workflow, systems, scanners, printers, etc.)**

Seybold Report on Publishing Systems, v24, n21, p37(12)

July 21, 1995

ISSN: 0736-7260 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 10669 LINE COUNT: 00842

... real time and then performed on the high-resolution data after user confirmation.

CD-Q. **Photo** CD and Pro **Photo** CD **images** can be viewed and separated with CD-Q (\$129), which **converts** YCC data to **gray - scale**, CMYK or **RGB** data. The user works with a preview **image** so that the high-resolution **images** can be cropped, mirrored, rotated or color-corrected as they are imported from the disc...

**17/3,K/24 (Item 3 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01669270 SUPPLIER NUMBER: 15062380 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Victor image processing libraries gain JPEG support. (Joint Photographic Experts Group, Catenary Systems' Victor Library for DOS or Microsoft Windows) (New Products) (Brief Article) (Product Announcement)**

Windows-DOS Developer's Journal, v5, n2, p80(1)

Feb, 1994

DOCUMENT TYPE: Product Announcement ISSN: 1059-2407 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 252 LINE COUNT: 00020

... Victor for Windows. It now includes the ability to load and save BMP and JPEG **image** files, in addition to TIFF, PCX, GIF, and TGA file formats. New functions allow **conversion** between bilevel, **grayscale**, palette color, and **RGB** color **images**. You can use color reduction to convert 24-bit RGB to 8-bit color **images** of 2 to 256 colors. Victor Library for DOS supports EGA, VGA, Super VGA, and...

**17/3,K/25 (Item 4 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01620110 SUPPLIER NUMBER: 14417704 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Advanced Windows Programming. (book reviews)**  
Casaro, Massimo  
Windows-DOS Developer's Journal, v4, n10, p21(4)  
Oct, 1993  
DOCUMENT TYPE: review ISSN: 1059-2407 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 1905 LINE COUNT: 00150

... the routines to Windows, the problems encountered, and the solutions adopted.

He then adds some **image** -processing capabilities to the program, including **conversion** from **RGB** to **gray - scale** , **adjusting** colors (using various color representations such as RGB, HSV, and HLS), and playing with the Windows color palette. Since **image** -processing functions take a lot of execution time, the author gives, in passing, his solution...

**17/3,K/26 (Item 5 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01494218 SUPPLIER NUMBER: 11701276 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**DoDOT is the Rosetta Stone of graphics conversion. (Halcyon Software Inc.'s \$149 DoDOT 3.0 data conversion software) (Software Review) (Evaluation)**  
Glinert, Susan  
Computer Shopper, v12, n1, p628(2)  
Jan, 1992  
DOCUMENT TYPE: Evaluation ISSN: 0886-0556 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1104 LINE COUNT: 00083

... window contains red, blue, and green color-adjustment slider bars, a palette for the current **image** , and a 17x17-cell matrix representing one side of a color cube. The color scroll...

...and then select the new color from the current palette, the color cube, or the **RGB** slider bars.

**Adjusting gray - scaled** pictures is a little more difficult, as there is no provision for gray scales in...

**17/3,K/27 (Item 1 from file: 553)**  
DIALOG(R)File 553:Wilson Bus. Abs. FullText  
(c) 2004 The HW Wilson Co. All rts. reserv.

03836220 H.W. WILSON RECORD NUMBER: BWBA98086220 (USE FORMAT 7 FOR FULLTEXT)  
**Tapping solutions for color management: industry experts predict a swift, ubiquitous adoption of ICC-standard integration.**  
AUGMENTED TITLE: cover story  
Sharples, Hadley  
Graphic Arts Monthly (Graph Arts Mon) v. 70 no9 (Sept. '98) p. 42-3+  
LANGUAGE: English  
WORD COUNT: 3169

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... applies input and output device profiles, applies global and

selective color corrections, and color-separates **images** . The software also processes black-and-white **images** , **converts** **RGB** to **grayscale** , detects **image** characteristics, balances tone, and sets high-light and shadow.

Pantone has announced Pantone ColorReady, a...

**17/3,K/28 (Item 1 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

04668774 Supplier Number: 61532029 (USE FORMAT 7 FOR FULLTEXT)

**The color management dilemma, Part II.**

farace, joe

The Press, v21, n3, p49

March, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1379

... easier to analyze by using a monochrome image for testing.

Step 2: Next, use the **image** editing program's Mode menu to then **convert** the **grayscale image** into **RGB** . I know this sounds backward, but in order to apply color corrections you need to start with a "color" **image** .

Step 3: Make a print of that image using all controls set at their default...

**17/3,K/29 (Item 2 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

03675114 Supplier Number: 47920179 (USE FORMAT 7 FOR FULLTEXT)

**HITACHI IMAGE AND INFORMATION SYSTEMS LAUNCH NEW LINE OF IMAGING PRODUCTS**

Computergram International, n3228, pN/A

August 19, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 57

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

The **Image** and Information Systems division of Hitachi Software Engineering America Ltd has announced a new line of **imaging** products for Autodesk Inc's AutoCAD release 14 design software. The new additions will include a range of options designed for editing and **converting** monochrome, **grayscale** and **colour** raster data inside AutoCAD.

**17/3,K/30 (Item 1 from file: 647)**  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01166332 CMP ACCESSION NUMBER: WIN19980701S0052

**Produce Cutting-Edge, Laser-Sharp Pages** (Hardware)

Joel T. Patz

WINDOWS MAGAZINE, 1998, n 907, PG107

PUBLICATION DATE: 980701

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext  
SECTION HEADING: Reviews  
WORD COUNT: 616

... dark and well formed, with little quality difference between the 600x600dpi and 1200x600dpi settings.

Unfortunately, **photos** looked grainy, with added streaking and other unacceptable "noise." The Okipage NT driver offers more sophisticated halftone adjustments than the Windows 95 driver, including brightness, contrast and **RGB** values to **adjust the gray scale**; in Win95 you can select optimization for **photographic** or line art **images**. Even after I tinkered with the halftone functions in NT, the results were no better...

**17/3,K/31 (Item 2 from file: 647)**

DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01154102 CMP ACCESSION NUMBER: WIN19980301S0101

**Perfect Pictures - Image editing apps can help you turn your digital images into perfect pictures.**

Lynn Ginsburg and John Woram  
WINDOWS MAGAZINE, 1998, n 900, PG206  
PUBLICATION DATE: 980301  
JOURNAL CODE: WIN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Features  
WORD COUNT: 4468

... without losing image quality or detail.

Once everything worked together the way I wanted, I **converted** the **image** from **gray scale** to **RGB (red, green, blue -video colors)**, keeping the **image** in layers so I could begin the colorizing process. Using the Lasso tool set at a feather radius to match the **image's** softness, I created channels for areas such as faces, the back wall, the floor...

...used Selective Color to control color in the highlights, middle tones and shadows, bringing the **image** one step closer to believability.

Finally, I saved a flattened (no layers) composite, which I...

?



21/3,K/1 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

04565087 Supplier Number: 54548270 (USE FORMAT 7 FOR FULLTEXT)

**S.A.X.: s.a.x. announce new solution for electronic forms printing in the SAP environment.**

M2 Presswire, pNA

May 4, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 488

... Support \* Corporate-Design Font Support \* Electronic Form Support \*  
Company Logo support \* Paperhandling \* Automatic Copies with **Watermarks** \*  
Drawing **Graphics** using PCL Commands \* **Colour** Emulation \* Full support  
of JetCAPS BarSIMM to facilitate Barcode Printing \* Support for MicrSIMM  
product for...

21/3,K/2 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

03844424 Supplier Number: 48357399 (USE FORMAT 7 FOR FULLTEXT)

**TSSI: TSSI gains Investor in People status**

M2 Presswire, pN/A

March 16, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 321

... business. I am delighted our efforts have been recognised in this way."

Notes for editors: **Colour photograph** available on request.

**Watermark** Magnetics is the leading secure magnetic stripe technology which embeds a unique pattern in the...

?

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## DIGIMARC IMAGEBRIDGE WATERMARKING GUIDE

[Overview](#)[Introduction](#)[Guidelines](#)[Survival](#)[Case Studies](#)

This section provides specific instructions and tips for integrating digital watermarking into your image processing workflow and creating the most durable digital watermarks possible.

### Types of images can be digitally watermarked

Generally, any image that can be opened by the application that is using Digimarc technology can be watermarked. This section provides additional information on specific aspects of images relating to watermarking.

### Bitmap images vs. vector images

Digital watermarking works most predictably with bitmap images, which can be either color or grayscale. Vector or line-art images can also be watermarked as long as they are first converted to a raster or bitmapped format.

### File formats

A Digimarc watermark can reside in any file format supported by the Digimarc-aware host application. For example, TIFF, PICT, JPEG, GIF, PNG, PSD and BMP images can all contain a watermark. Because a watermark is carried by the pixels that make up an image, it survives even when the image is converted from one file format to another.

**Note:** Not all of Digimarc's products support all of these file formats. Refer to the User's Guide for your product for specific information.

### Color space

The digital watermark is placed in the luminance channel of an image, so it is color space independent. A digital watermark can be placed in RGB, CMYK, LAB or grayscale images, and will survive when an image is converted from one color space to another.

**Note:** The RGB, CMYK, LAB and grayscale color spaces are not supported by all image-editing applications, so refer to the User's Guide for your application to see what color spaces it supports.

In some image-editing applications, no filters are available when working with indexed-color images (such as the GIF format); this will prevent you from using the plug-ins filter to embed a watermark in such an image. The solution is simple, however: just convert the image to RGB, apply the digital watermark, and then convert back to indexed color.

### Image variations/randomness

Because of the way that Digimarc digital watermarks are embedded, an

image being watermarked must not be composed mostly or entirely of a single flat color if the watermark is to be imperceptible. Rather, the image must contain some degree of variation or randomness.

Since the watermark is intended to be information that the computer can see but the viewer does not, Digimarc uses a patented technique called perceptual adaptation when embedding digital watermarks. This is simply a technical way of saying that when embedding a digital watermark, the software identifies areas of the image that are highly detailed or very flat, and adjusts the intensity of the digital watermark accordingly. In flat areas the digital watermark intensity is decreased, while in detailed regions the intensity is increased. If an image is composed mostly of flat areas, it may be difficult to conceal the digital watermark.

### **Size of image that can be digitally watermarked**

To embed a digital watermark and read it reliably later, the Digimarc technology requires a minimum number of pixels with which to work. If you don't believe that your image will be modified or compressed prior to its actual use, its size can be as small as 100 x 100 pixels. However, if you expect that your image might be cropped, rotated, compressed or otherwise modified after you watermark it, Digimarc recommends a minimum size of 256 x 256 pixels. There is no upper limit on image size for digital watermarking.

**Note:** You may find that some smaller images actually watermark successfully, and even that some larger images do not. Such variance in successful digital watermarking is a factor of the variation/randomness of the image (as discussed in the previous section), the durability setting used when embedding the watermark (see "Watermark durability vs. visibility" later in this Guide) and the parameters used in applying compression, if any (see Image compression in Watermark Survival section later in this Guide).

### **Workflow overview: when to digitally watermark images**

As you prepare an image for its final use, you may take it through a number of different transformations. You may save the image in multiple resolutions, and you may perform a number of the edits discussed in the "Digital Watermark Survival" section of this Guide, such as color correction, cropping, rotating, scaling, etc. Digital watermarking should be one of the very last processes you apply to your image, except for compression. The recommended workflow sequence for digital watermarking, then, is as follows:

1. Make all necessary modifications to your image until it has the desired final appearance.
2. Embed the watermark.
3. If the final image should be compressed, compress by converting to JPEG or GIF format.
4. If the image is intended for printed output, perform the color separation now.
5. Read the digital watermark and use the signal strength meter to verify that the image contains a digital watermark of sufficient strength for your purposes.
6. Publish the image.

### **Setting digital watermark attributes**

When you're ready to embed a digital watermark, you will need to set a number of parameters for the information the watermark will contain. The following list summarizes these attributes.

- *Digimarc ID*. A unique number that identifies you when you register with Digimarc as an image creator. This unique ID is linked to the Creator's contact profile.
- *PIN*. A Personal Identification Number provided to you by Digimarc for use in validating your Digimarc ID when you submit it.
- *Copyright Year*. A single year or two years separated by a comma; must be between 1922 and the current year, or
- *Image or Transaction ID*. A unique number that you assign to identify the image or transaction (range is 1-16,777,215).
- *Restricted Use*. When selected, indicates that the image is copyrighted and subject to restricted use.
- *Do Not Copy*. When selected, indicates that the image's creator and/or distributor has specified that the image should not be copied without permission.
- *Adult Content*. When selected, indicates that the image contains Adult Content.

### **Setting target output**

Digimarc adjusts an embedded digital watermark slightly depending on whether the image will be used electronically or in printed form. You should select the intended target output for your image--monitor, print, or web.

### **Digital Watermark durability vs. visibility**

Digimarc's goal is to embed digital watermarks that are both imperceptible to the human eye and durable. This can be a delicate balancing act, since watermark durability and watermark visibility are directly related. An increase in watermark intensity, or energy, increases the durability-but it also increases the visibility of the watermark. When a digital watermark becomes visible, it can appear as a slight texture or graininess in the image.

### **Using the durability/visibility setting**

The default watermark intensity setting found in Digimarc digital watermarking products has been chosen to strike a balance between digital watermark robustness and visibility in the majority of images. However, this setting is by no means "one size fits all." Digimarc provides controls so that you can increase or decrease the watermark intensity level yourself to achieve the desired balance between watermark robustness and visibility in your digital watermarking projects. The setting you select will depend on the intended use of the image and on the goals you've set for your digital watermarks. For example, it may be quite acceptable to use a higher watermark intensity setting with JPEG images posted on a Web site. The higher durability helps to assure the persistence of the watermark, and the increased visibility will often not be noticeable with medium-resolution JPEG images.

Digimarc recommends that you try various digital watermark intensity settings as part of your testing process to see which setting works best for the majority of your images. The goal is to find the balance between visibility and durability that best serves your image and provides the persistent identity that will protect it. Use the signal strength meter to

get feedback on the watermark strength.

**Other factors affecting watermark durability**

Along with the intensity setting that you choose when embedding a watermark, the durability of a digital watermark is also affected by the following factors:

- Image variations/randomness-As discussed earlier in the "Image variations/randomness" section, the successful embedding of a watermark is dependent on the variation and randomness present in the pixels making up the image. For example, if you are working with an image that contains more flat color regions than detailed areas, you may want to choose a higher digital watermark intensity so that the watermark will overcome the limitations of the specific image. This may result in a more visible digital watermark, but in some situations that is an acceptable trade-off, as mentioned above.
- Image size-See the earlier section, "[What size of image can be watermarked?](#)"
- Compression-Saving the watermarked image in a compressed format may affect the durability of the digital watermark.

See the [Digital Watermark Survival](#) section.

**Using the signal strength meter**

A significant aid in determining the durability of an embedded digital watermark is the signal strength meter that is available in the Digimarc plug-ins. After you've embedded a digital watermark, you can immediately check its intensity visually with the signal strength meter and decide whether or not the digital watermark has a sufficient durability to survive your intended use of the image (you can do this automatically by selecting the "Verify" option when embedding a watermark). The signal strength meter is also available when you are reading a digital watermark you've previously embedded. When you are experimenting with different ways of preparing your images for digital watermarking and of putting them to use once they've been watermarked, we encourage you to use the signal strength meter as a "quick-read" gauge of how your various settings are working.



PRODUCTS



TIB4110

Reviewed, January 1998

## TECHNICAL INFORMATION BULLETIN

### Creating and Importing Watermark Images for Kodak Photo CD Imaging Workstations 2220/4220/4440

#### Introduction

This document describes the steps necessary to create watermark images (Watermarks) for use on *Kodak Photo CD Imaging Workstations 2220/2420/4220* (PIWs). For other details, consult the user's manual for your PIW.

#### Specifications for a Watermark

File Type	Resolution	Image Type
<b>TIFF to IMAGE PAC</b>	768 lines x 512 pixels or 640 lines x 480 pixels	Monochrome (grayscale), RGB color, or PhotoYCC color
<b>IMAGE PAC</b>	Base	Monochrome (grayscale), RGB color, or PhotoYCC color

#### Creating a Watermark

1. In an imaging program, create or scan any image you want to use for the Watermark. Keep in mind that you need only a Base-resolution image.  
  
The original image can be either color or monochrome. However, because the Watermark is used only in the luminance layer, you will see it only in monochrome, not in color.
2. Save the file in TIFF PC format. This format is usually an option in programs that run on a MACINTOSH computer, such as ADOBE PHOTOSHOP Software. Any program that runs on a PC should save the file properly.  
  
Note: *Kodak Photo CD Imaging Workstations* cannot read MACINTOSH files without additional software.

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3. Put the saved file on either a PC-formatted floppy diskette or a magnetic disk that is networked to a PIW. (At the 768 x 512 resolution, a color image is only 1.17 MB; a grayscale image is 393 K.)

#### Importing a Watermark to the PIW

The method you will use to import the Watermark to the PIW depends on the source of the Watermark.

**Option 1:** Watermarks that have been created on a PC or MACINTOSH computer must be imported to the PIW using the TIFF import option and then exported to the PIW's hard drive for subsequent use. Watermarks can originate on a magnetic disk or writable CD.

**Option 2:** Watermarks that originate on film must be scanned into the system and then exported to the PIW's hard drive. (Scan Base resolution only to save disk space.)

**Option 3:** Watermarks that are on Photo CD should be copied from the Photo CD and exported to the PIW's hard drive.

#### Registering a Watermark on the PIW

See pages 3-14 and 3-15 of the PIW user's manual for information on how to register a Watermark. Simply stated, you register a Watermark by importing the location of the Watermark into the default menu so that it will appear on the PIW.

The PIW can recognize only ten Watermarks at a time, but you can have as many on the system as you want to maintain.

#### More Information

See the following sections in your PIW user's manual for more information: "Watermarking images," page 1-25 and "Setting Image Pac property defaults," pages 3-14 and 3-15.

Digital & Applied Imaging, Eastman Kodak Company, Rochester, NY 14650